# CONSTRUCTION NEWS

*Engineering News-Record, June 25, 1925*

## Some of the Week's Large Projects

AMONG the announcements for the current week of proposals, bids desired and received and contracts awarded, are the following big jobs:

### *Proposed Work*

Office, New York, N. Y., J. C. and M. G. Mayer plan building, $8,000,000.

Hospital, New York, N. Y., Bellevue and Allied Hospitals plan new group, $3,000,000.

Hotel, San Francisco, Calif., L. W. Huckins having plans prepared, $3,000,000.

Hotel, Long Beach, Calif., Castilian Hotel Corp. plans building, $2,500,000.

Hotel, Long Beach, Calif., F. B. Dunn plans building, $1,600,000.

Paving, Cleveland, O., Bd. of Comrs. plans 7 mi. paving, $1,500,000.

Hotel, Oakland, Calif., J. K. Leaming having plans prepared $1,500,000.

Hospital, Pittsburgh, Pa., Montefiore Hospital having plans prepared, $1,000,000.

Office, Tampa, Fla., J. A. Crenshaw plans building, $1,000,000.

Plant, Pittsburg, Calif., H. W. Johns-Manville Co. plans factory, $1,000,000.

Auditorium, Seattle, Wash., City Council having preliminary plans prepared, $1,000,000.

Sanitarium, Okanogan, Wash., Epso Products Co. plans sanitarium and resort, $1,000,000.

Chemistry building, Philadelphia, Pa., University of Pennsylvania plans building, $1,000,000.

### *Bids Wanted On Big Jobs*

Removal of grade crossings, Philadelphia, Pa., City and Philadelphia and Reading R.R. take bids about Aug. 1, $2,900,000.

Apartment, Bridgeport, Conn., Owner c/o R. Williams, archt., taking bids, $1,000,000.

Theatre, Atlantic City, N. J., Hoffman-Henon Co., Philadelphia, Pa., taking sub. bids, $1,000,000.

### *Large Contracts Let During Week*

Subway, New York, N. Y., Bd. of Transportation to T. A. Gillespie Co., $3,997,000.

Office, Detroit, Mich., Book Estate to Starrett Bros., Chicago, $3,000,000.

Office, Denver, Colo., Tremont Investment Co. to Dutton-Kendall Co., $1,650,000.

Central Y. M. C. A., St. Louis, Mo., to J. Stewart & Co., $1,500,000.

Bridge, between Minneapolis and St. Paul, to J. O. Heyworth, Inc., $1,437,984.

High School, Reading, Pa., Bd. of Educ., gen. contract to Melody and Son, total contract, $1,279,755.

Bank and Office, Erie, Pa., Erie Trust Co. to Sheink Constr. Co., $1,000,000.

Roundhouse, South St. Paul, Minn., Chicago, Milwaukee and St. Paul R.R. Co. to H. C. Struchen, $1,000,000.

# PROPOSALS

**For proposals Advertised see the pages immediately following the "Construction News" Section.**

| Bids Close | | See Eng. News-Record |
|---|---|---|

### WATERWORKS

| | | |
|---|---|---|
| June 26 | New York, N. Y. | June 25 |
| June 29 | Boston, Mass. | June 18 |
| June 29 | Minneapolis, Minn. | June 18 |
| June 29 | Wakefield, Kan. | June 25 |
| June 29 | Menomonee Falls, Wis. | June 25 |
| June 29 | Praque, Okla. | June 25 |
| June 29 | Storm Lake, Ia. | June 25 |
| June 29 | Windsor, Ont. | June 25 |
| June 29 | New York, N. Y. | June 25 |
| June 30 | Macon, Ga. | June 4 |
| June 30 | Greenwood, Neb. | June 23 |
| July 1 | Hartford, Conn. | June 11 |
| July 1 | Fairfield, Ill. | June 11 |
| July 2 | Deerfield, Wis. | June 25 |
| July 2 | Du Boise, Neb. | June 25 |
| July 2 | Seaside Heights, N. J. Adv. June 25. | June 25 |
| July 2 | Buffalo, N. Y. | June 25 |
| July 6 | St. Paul, Minn. | June 25 |
| July 7 | Ocala, Fla. | June 25 |
| July 7 | New London, N. H. Adv. June 25. | June 25 |
| July 7 | Grantsburg, Wis. | June 25 |
| July 9 | Ronceverte, W. Va. Adv. June 25. | June 25 |
| July 9 | Rhode Island Adv. June 25. | June 25 |
| July 13 | Covington, Ky. Adv. June 25. | June 25 |
| July 14 | Woodstock, Va. | June 25 |
| July 20 | Oakland, Calif. | June 4 |
| July 27 | Omaha, Neb. Adv. June 25. | June 25 |
| July 28 | Leesville, S. C. | June 25 |

### SEWERS

| | | |
|---|---|---|
| June 29 | Butler, N. J. Adv. June 18 and 25. | June 18 |
| June 29 | Long Island City, N. Y. | June 25 |
| June 30 | St. George, N. Y. | June 18 |
| June 30 | Louisville, Ky. | June 4 |
| June 30 | Wallingford, Conn. | June 11 |
| June 30 | Tampa, Fla. | June 25 |
| July 1 | Boston, Mass. | June 25 |
| July 1 | West Seneca (mail Buffalo) N. Y. | June 25 |
| July 2 | Boston, Mass. | June 25 |
| July 6 | Lansdale, Pa. Adv. June 18 and 25. | June 18 |
| July 6 | Boston, Mass. | June 25 |
| July 6 | Plainfield, N. J. Adv. June 25. | June 25 |
| July 7 | Boston, Mass. | June 25 |
| July 7 | Grantsburg, Wis. | June 25 |
| July 28 | Leesville, S. C. | June 25 |

### WASTE DISPOSAL

| | | |
|---|---|---|
| July 6 | West Palm Beach, Fla. Adv. June 18. | June 18 |

### BRIDGES

| | | |
|---|---|---|
| June 29 | Arkansas | June 18 |
| June 29 | Milwaukee, Wis. | June 25 |
| June 30 | Tampa, Fla. | May 28 |
| June 30 | Media, Pa. | June 18 |
| June 30 | Chester, Pa. | June 18 |
| June 30 | Louisiana | June 18 |
| June 30 | Wyoming | June 25 |
| June 30 | Louisiana | June 25 |
| June 30 | Beaufort, S. C. | June 25 |
| July 2 | North Adams, Mass. Adv. June 11 to 25. | June 11 |
| July 6 | Georgia | June 18 |
| July 8 | Alabama | June 4 |
| July 8 | Alabama | June 18 |
| July 8 | Freehold, N. J. Adv. June 25. | June 25 |
| July 14 | Washington | June 25 |

### DAMS

| | | |
|---|---|---|
| June 30 | Ottawa, Ont. | June 11 |
| July 9 | Gouverneur, N. Y. | June 18 |

### EXCAVATION, DRAINAGE IRRIGATION, LEVEES

| | | |
|---|---|---|
| July 6 | Buffalo, N. Y. | June 25 |
| July 7 | Albany, N. Y. Adv. June 11 to 25. | June 11 |

### STREETS AND ROADS

| | | |
|---|---|---|
| June 26 | New York Adv. June 4 to 25. | June 4 |
| June 26 | Sandwich, Ont. | June 25 |
| June 27 | Elizabeth City, N. C. Adv. June 18 and 25. | June 18 |
| June 28 | Cudahy, Wis. | June 4 |
| June 29 | Akron, O. | June 11 |
| June 29 | Plainfield, N. J. | June 11 |
| June 29 | Columbus, Ga. | June 18 |
| June 29 | Akron, O. | June 18 |
| June 29 | Arkansas | June 18 |
| June 29 | Texas | June 25 |
| June 29 | Michigan | June 25 |
| June 29 | Arkansas | June 25 |
| June 29 | Minneapolis, Minn. | June 25 |
| June 30 | Stanton, Ia. | June 18 |
| June 30 | Uniontown, Pa. | June 18 |
| June 30 | Minnesota | June 18 |
| June 30 | St. Louis, Mo. | June 4 |
| June 30 | Columbus, O. | June 25 |
| June 30 | New Hampshire | June 25 |
| June 30 | Boston, Mass. | June 25 |
| June 30 | Massachusetts | June 25 |
| June 30 | Wyoming | June 25 |
| June 30 | South Dakota | June 25 |
| June 30 | Denver, Colo. | June 25 |
| July 1 | Rhode Island Adv. June 18 and 25. | June 18 |
| July 1 | Deland, Fla. | June 4 |
| July 1 | Delaware | June 11 |
| July 1 | Newton, N. J. Adv. June 18 and 25. | June 18 |
| July 1 | Georgetown, S. C. Adv. June 18 and 25. | June 18 |
| July 1 | Philippi, W. Va. | June 18 |
| July 1 | Baltimore, Md. | June 25 |
| July 1 | Deland, Fla. | June 25 |
| July 1 | Sayreville, N. J. | June 25 |
| July 2 | Philippi, W. Va. | June 18 |
| July 2 | Louisiana | June 18 |
| July 2 | Port Angeles, Wash. | June 18 |
| July 2 | Wisconsin | June 25 |
| July 2 | North Dakota | June 25 |
| July 2 | Virginia Adv. June 25. | June 25 |
| July 2 | Louisiana | June 25 |
| July 2 | Brooklyn, N. Y. | June 25 |
| July 2 | New York, N. Y. | June 25 |
| July 3 | Philippi, W. Va. | June 18 |
| July 3 | Wisconsin | June 25 |
| July 3 | Eagle Lake, Fla. | June 25 |
| July 3 | Greenville, Miss. | June 25 |
| July 6 | California | June 18 |
| July 6 | Peekskill, N. Y. Adv. June 18 and 25. | June 18 |
| July 6 | South San Francisco, Calif. | June 18 |
| July 6 | Wichita Falls, Tex. | June 18 |
| July 6 | Fayetteville, W. Va. Adv. June 11 to 25. | June 11 |
| July 6 | New Jersey Adv. June 18 and 25. | June 18 |
| July 6 | Bridgeport, W. Va. | June 25 |
| July 6 | Astoria, Ill. | June 25 |
| July 6 | San Diego, Calif. | June 25 |
| July 6 | Wartham, Tex. | June 25 |
| July 6 | Cedar Rapids, Ia. | June 25 |
| July 6 | St. Paul, Minn. | June 25 |
| July 7 | Dade City, Fla. Adv. June 18 and 25. | June 18 |
| July 7 | Dundee, Fla. | June 25 |
| July 7 | Tampa, Fla. | June 25 |
| July 7 | North Dakota | June 25 |
| July 7 | Pennsylvania Adv. June 25. | June 25 |
| July 8 | Alabama | June 4 |
| July 8 | North Dakota | June 25 |
| July 8 | Jackson, Miss. | June 25 |
| July 8 | Grand Forks, N. D. | June 18 |
| July 9 | Louisiana | June 25 |
| July 9 | Oberlin, La. | June 25 |
| July 9 | Port Arthur, Tex. | June 25 |
| July 10 | North Dakota | June 25 |

| Bids Close | | See Eng. News-Record |
|---|---|---|
| July 10 | Pittsboro, Miss. | June 25 |
| July 13 | Kentucky | June 18 |
| July 14 | Worthington, Minn. | June 25 |
| July 14 | St. Louis, Mo. | June 25 |
| July 14 | Washington | June 25 |
| July 15 | New York<br>Adv. June 25. | June 25 |
| July 15 | Phila., Pa.<br>Adv. June 25. | June 25 |
| July 17 | Faribault, Minn. | June 25 |
| Aug. 1 | Birmingham, Ala. | June 25 |

## BUILDINGS INDUSTRIAL

| | | |
|---|---|---|
| June 30 | Jamestown, N. Y. | June 25 |
| July 1 | New York, N. Y. | June 25 |

## BUILDINGS—COMMERCIAL

| | | |
|---|---|---|
| June 26 | Wash., D. C. | June 25 |
| June 29 | Beacon, N. Y. | June 18 |
| June 26 | Phila., Pa. | June 25 |
| June 27 | Phila., Pa. | June 25 |
| June 29 | Youngstown, O. | June 25 |
| June 30 | Olympia, Wash. | June 4 |
| June 30 | Rome, N. Y. | June 11 |
| June 30 | Sonyea, N. Y. | June 11 |
| June 30 | Creedmoor (Jamaica P. O.), N. Y.<br>Adv. June 18 and 25. | June 18 |
| July 1 | Kansas City, Mo. | June 11 |
| July 1 | Birmingham, Ala. | June 11 |
| July 1 | Newton, Kan. | June 25 |
| July 1 | Grafton, N. D. | June 25 |
| July 1 | Atchison, Kan. | June 25 |
| July 1 | Alto, Ga. | June 25 |
| July 6 | Coney Island (Brooklyn P. O.), N. Y. | June 25 |
| July 6 | Trenton Junction (Trenton P. O.), N. J. | June 25 |
| July 6 | Murphysboro, Ill. | June 25 |
| July 6 | Baltimore, Md. | June 25 |
| July 13 | Johnstown, Pa. | June 18 |
| July 14 | Phila., Pa. | Feb. 19 |
| July 15 | Brooklyn, N. Y. | May 21 |

## BUILDINGS—EDUCATIONAL, RELIGIOUS

| | | |
|---|---|---|
| June 26 | Lancaster, Pa. | June 25 |
| June 29 | Audubon, N. J. | June 18 |
| June 29 | York, Pa. | June 11 |
| June 30 | Ellwood City, Pa. | June 11 |
| June 30 | Fergus Falls, Minn. | June 11 |
| June 30 | Lorain, O. | June 25 |
| June 30 | Tampa, Fla. | June 25 |
| July 1 | Rosedale (mail Jamaica), N. Y. | June 18 |
| July 1 | Superior, Wis. | June 18 |
| July 1 | San Francisco, Calif. | May 28 |
| July 1 | Rosedale (mail Jamaica), N. Y. | June 25 |
| July 2 | Minneapolis, Minn. | June 25 |
| July 8 | St. Louis, Mo. | June 25 |
| July 16 | Buffalo, N. Y. | June 25 |

## FEDERAL GOVERNMENT WORK

| | | |
|---|---|---|
| June 29 | Levee Work—Vicksburg, Miss.<br>Adv. June 18 and 25. | June 18 |
| June 29 | Levee—Vicksburg, Miss. | June 25 |
| June 29 | Heating System—Mt Vernon, Ill. | June 25 |
| June 30 | Road—Ft. Bayard, N. M. | June 11 |
| June 30 | Post Office—Manitowoc, Wis. | June 18 |
| July 1 | Post Office—New York, N. Y. | June 18 |
| July 1 | Remodeling—New York, N. Y. | June 4 |
| July 1 | Hospital—Pearl Harbor, H. T. | June 18 |
| July 1 | Dredging—Phila., Pa. | June 18 |
| July 1 | Pipe, etc.—Wash., D. C. | June 25 |
| July 2 | Remodeling—Lynn, Mass. | June 4 |
| July 3 | Post Office—Lowell, Mass. | June 4 |
| July 3 | Dredging—Bridgeport, Conn.<br>Adv. June 4 to 25. | June 4 |
| July 6 | Remodeling—Saginaw, Mich. | June 11 |
| July 7 | Bridges, Florence, Ala.<br>Adv. May 21 to June 25. | May 28 |
| July 7 | Post Office—Clarksburg, W. Va. | June 11 |
| July 7 | Hospital—Oteen, N. C. | June 25 |
| July 7 | Post Office—Clarksburg, W. Va. | June 25 |
| July 8 | Post Office—Camden, Ark. | June 11 |
| July 8 | Swinging Machinery—Florence, Ala.<br>Adv. June 18 and 25. | June 18 |
| July 9 | Remodeling—Providence, R. I. | June 4 |
| July 10 | Post Office—Franklin, Pa. | June 11 |
| July 10 | Earthwork—New Orleans, La. | June 25 |
| July 13 | Post Office—Walden, N. Y.<br>Adv. June 18 and 25. | June 18 |
| July 15 | Embankment—Memphis, Tenn. | June 25 |
| July 20 | Crane—Florence, Ala.<br>Adv. June 11 to 25. | June 11 |
| July 29 | Hospital—Canacao, P. I. | May 21 |
| Aug. 4 | Hospital—Hot Springs, S. D.<br>Adv. June 25. | June 25 |

| Bids Close | | See Eng. News-Record |
|---|---|---|
| | **UNCLASSIFIED** | |
| June 26 | Bulkhead—New York, N. Y. | June 18 |
| June 26 | Special Work—New York, N. Y. | June 18 |
| June 30 | Bank Protection—Baie St. Paul, Que. | June 25 |
| June 30 | Wharf—Sorel, Que. | June 25 |
| June 30 | Guard Rail — South Dakota | June 25 |
| July 1 | Stadium—Chicago, Ill. | June 18 |
| July 1 | Pier and Bulkhead—New York, N. Y. | June 25 |
| July 3 | Breakwater and Wharf—Little Judyne Ponds, N. S. | June 25 |
| July 6 | Subway—Jersey City, N. J.<br>Adv. June 18 and 25. | June 18 |
| Aug. 10 | Electric Capstans, etc.—Napier, New Zealand | June 25 |
| | **MATERIALS** | |
| June 29 | Sand, etc.—Illinois | June 25 |

**Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.**

# Waterworks

### PROPOSED WORK

**Mass., Melrose**—Bd. Aldermen plans extending mains in various sections of city. $15,000. Engineer not selected.

**N. Y., Buffalo**—Plans new water tower and 16 in. watermain in Hamburg Turnpike. $200,000. B. Boyle, Municipal Bldg., comr.

**N. Y., North Tonawanda**—Bd. Pub. Wks. plans extending mains in various streets. $25,000. C. L. Oelkers, city engr.

**Pa., Phila.** — Dept. Pub. Wks., Bureau Water, rejected bids June 1, Contr. 739. Will readvertise. Noted June 11.

**La., Lake Charles**—Lake Charles Electric Co., making plans improving waterworks, incl. filtration plant, etc. To exceed $15,000. Burns & McDonnell Eng. Co., 402 Interstate Bldg., Kansas City, Mo., engrs.

**O., Ashtabula** — Made plans brick and steel pumping station. $20,000. G. B. Gascoigne, Leader News Bldg., Cleveland, engr.

**O., Columbus**—See "Streets and Roads."

**O., Fremont**—Plans constructing filtration system to replace present water supply system. $200,000. W. H. Schwartz, mayor.

**Mich., Grosse Pointe Farms** (branch of Detroit)—Made plans 2,200 ft. 6 in. and 4,830 ft. 8 in. c.i. mains in various streets. J. A. Kerby, city clk.

**Ill., Greenville** — Election Aug. 1, $42,000 bonds, for waterworks.

**Wis., Oconto Falls**—A. W. Johnson, city clk., making preliminary plans improving waterworks, incl. additional wells, electrically driven booster pumps, 100,000 gal. elevated tank on steel tower, etc. To exceed $15,000. McMahon & Clark Eng. Co., Menasha, engrs.

**Minn., Mankato**—F. W. Bates, city clk., making preliminary plans improving and extending waterworks, incl. additional wells and pumping equipment, etc. $50,000. L. P. Wolff, 903 Globe Bldg., consult. engrs.

**Mo., La Plata** — Voted $95,000 bonds waterworks, pumping equipment, deep wells, tank on tower, distribution mains, etc., in various streets. W. B. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, engrs. Noted May 14.

**Mo., Troy**—Election about July 1, $48,000 bonds, two deep wells and pumps, 55 fire hydrants, 75,000 gal. capacity tank on 75 ft. tower, 25,000 ft. 4, 6 and 8 in. c.i. mains, etc., in various streets. E. Flad & Co., 1312 Chemical Bldg., St. Louis, engrs.

**Tex., Idalou**—Soon takes bids for waterworks system. $30,000 bonds voted. Montgomery & Ward, Wichita Falls, archts. Noted May 26.

**Tex., San Antonio**—San Antonio Water Supply Co. soon takes bids 1 m.g. steel and concrete reservoir in Laurel Heights. $130,000. I. Ewing, city engr. Noted May 7.

**Tex., Wichita Falls** — Election soon $100,000 bonds, waterworks improvements, incl. filtration plant, piping water from Lake Michigan, etc. F. M. Rugely, city engr.

**Okla., Eufaula** — Making preliminary plans waterworks, incl. pumping machinery, 500,000 gal. daily capacity, etc. $25,000. Address R. L. Carter, city clk.

**Okla., Idabel**—Voted $50,000 bonds, new filtration plant, pumps, oil engine, meters, etc. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

**Colo., Denver** — Defeated $10,000,000 bonds, constructing reservoir and water system.

**Ariz., Chandler** — Voted $100,000 bonds waterworks.

**Wash., Tacoma** — See "Streets and Roads."

**Calif., Los Angeles** — Voted $2,000,000 bonds constructing aqueduct system from the Colorado River. Noted May 21.

**Calif., McCloud**—McCloud River Lumber Co. made plans water supply system, incl. 36,970 lin.ft. 16 in. wood stave pipe line, concrete dam, 10 ft. high, 110 ft. long on top, and 100 ft. long on bottom. $75,000. Private plans.

**Ont., Hagersville**—Plans mains in various streets. J. T. Park, town clk.

### BIDS DESIRED

**N. H., New London** — July 7, by Bd. Water Comrs., earth dam, and about 5 mi. 6- to 12-in. wood pipe line, etc.; adv. E. N.-R. June 25.

**Rhode Island** — July 9, by Bd. Water Comrs., City Hall, Woonsocket, raising dam at Reservoir 3, Woonsocket Water Works, in Smithfield and North Smithfield, and raising highway near Stephen Wright Pl. F. H. Mills, city engr.; adv. E. N.-R. June 25.

**N. Y., Buffalo**—July 2, by Comn. Pub. Affairs, 3,000 ft. 5 3/8 in. 17 pound casing; 3,000 ft. 8 in. extra strong pipe with long couplings; 1 heavy duty counter balance pumping power, suitable for operating O'Dell barrell in well 3,400 ft. deep. F. C. Perkins, 332 Ellicott St., comr.

**N. Y., New York** — June 26, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains, etc., in Newton Rd., 11th and Woolsey Aves., 1st Ward; 63rd and 67th Drs., 58th Rd., Nansen, Atom, Austin, Carolyn, Ella, 66th and 112th Sts., Folsom, Stafford, 32nd, 44th and 54th Ave., 2nd Ward; 150th Pl., 32nd and Graham Courts, 27th, 29th, 32nd, 35th, 91st, Jewel, 58th and 65th Aves., 124th, 130th, 160th, 162nd, 165th, 245th and 247th Sts., 3rd Ward; 154th Dr., Old and New Lanes, Alden and Sampson Places, Bayview, 153rd, 154th, 155th, Britton, Herrick and Junction Aves., Broad, Lumbard, Exeter, Helsey, 2nd and 91st Sts., 4th Ward.

**N. Y., New York** — June 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains, etc., in St. Nicholas Park, St. Nicholas, 7th and 8th Aves., East 135th, West 135th and 150th Sts.

**N. J., Seaside Heights**—July 2, by Boro Council, erecting stand pipe 20 ft. diam., 120 ft. high, on concrete foundations. Sherman & Sleeper, 501 Cooper St., Camden, engrs.; adv. E. N.-R. June 25.

**Va., Woodstock**—July 14, by Bd. Town Comrs. at office of H. Trotter, mayor, concrete intake dam, 56,500 lin.ft. 8 or 10 in. c.i. gravity supply line, chlorinators, etc. Amer. Industries Eng. Co., 140 Cedar St., New York City, engrs. Carolina Eng. Co., 917 Johnston Bldg., Charlotte, N. C., associated engrs.

**W. Va., Ronceverte** — July 9 (extended date), by City at office A. S. Woodhouse, city clk., waterworks improvements, incl. filtration plant, equipment, pumps, etc. H. K. Bell, 418 Hernando Bldg., Lexington, Ky., engr.; adv. E. N.-R. June 25. Noted June 11.

**S. C., Leesville**—July 28, by Town Bd. of Commissioners, at office C. D. Barr, Jr., chn., 15,000 lin.ft. 2 in. pipe, and 13,700 lin. ft. 6- to 10-in. c.i. mains, etc., in various streets. Carolina Eng. Co., 917-919 Johnston Bldg., Charlotte, engr. G. H. Bishop, consult. engr.

**Fla., Ocala**—July 7, by City, motor driven cross compounded or single cylinder air compressor to deliver 1,000 gal. water per minute, from either two 8 in. wells, 350 ft. deep or from one 12 in. well, 1,200 ft. deep, etc.

**Ky., Covington**—July 13, at office Dixie Highway Water Co., 605 Coppin Bldg., mains, pumping station, elevated steel tank, etc.; adv. E. N.-R. June 25.

**O., Columbus**—See "Streets and Roads."

**Wis., Deerfield**—July 2, by E. Helmick, village clk., drilling well, 10 in. diam. 300 to 350 ft. deep, for waterworks. W. G. Kirchoffer, 22 North Carroll St., Madison, engr. Noted June 4.

**Wis., Grantsburg**—July 7, by C. A. Taylor, city clk., one 75,000 or one 100,000 gal. elevated tank on 75 ft. tower, 1 or more shallow wells, 10,900 ft. 6 in. and 2,100 ft. 8 in. c.i. pipe, sixteen 6 in. and six 8 in. gate valves, etc. $35,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, Minn., engrs. Noted July 31.

**Wis., Menomonee Falls**—June 29, by W. J. Connell, village clk., drilling well and

Waterworks (Continued)

deep well pump to deliver 350 g.p.m. against static head of 191.3 ft. Former bids rejected. Noted Apr. 9.

**Ia., Storm Lake**—June 29, improving and extending brick and concrete filtration plant; pipe and equipment for 2 filters. $15,000. J. H. Oates, city clk.

**Minn., St. Paul**—July 6, by Ramsey Co., sinking 2 or 3 tubular wells at Bald Eagle and Owasso Lakes. $15,000. P. N. Coates, 900 Guardian Life Bldg., engr. Noted May 26.

**Kan., Wakefield**—June 29, by Burns & McDonnell Eng. Co., 400 Interstate Bldg., Kansas City, Mo., additional well, pump house and pumping equipment, here, for City. Noted June 18.

**Neb., Dubois**—July 2, by M. Church, village clk., 35,000 gal. or 50,000 gal. tank on 100 ft. tower, 5,124 ft. 4- to 8-in. c.i. pipe, 6,100 ft. 1 and 2 in. galvanized pipe, two 16 ft. wells approximately 35 ft. deep, etc. Henningson Eng. Co., Natl. Bldg., Omaha, engrs. Noted Dec. 18.

**Neb., Greenwood** — June 30, by W. E. Hand, village clk., waterworks, incl. well, motor driven pump, pumphouse, elevated tank, c.i. mains, valves, hydrants, etc. $23,300. Grant, Fulton & Letton, 525 South 13th St., Lincoln, engrs. Noted June 11.

**Neb., Omaha**—July 27, by Metropolitan Utilities Dist., at office T. A. Leisen, genl. mgr., 206 City Hall, 36 and 48 in. water-mains; adv. E. N.-R. June 25.

**Okla., Prague**—June 29, by Town, for well, air compressor, concrete reservoir, and main extensions. Holway Eng. Co., 503 Wright Bldg., Tulsa, engrs. Noted Apr. 2.

**Ont., Windsor**—June 29, by Water Commissioners, W. A. Hanrahan, secy., 100 tons (more or less) 12 in., 30 tons (more or less) 8 in. and 100 tons (more or less) 6 in. c.i. mains, valves, fire hydrants, etc., f.o.b. Windsor.

### BIDS RECEIVED

**N. Y., St. George** — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, June 19, mains in Bard, Beach, Bement, Dale, Dewey, Harvest, Holmstead and Isabella Aves., etc., here, from G. V. Cornell, Rose Bank, S. I., $25,490.

**Md., Baltimore**—Bd. Awards, superstructure of chemical, filter and shelter buildings, pumping station and garage, at Montebello Ave. filters, Harford Rd. and 33rd St., from J. H. Miller Inc., Eutaw and Franklin Sts., $309,631. Noted June 11.

**Wis., Milwaukee**—Dept. Pub. Wks., June 18, 3,520 ft. 12 and 20 in. mains in various streets, from Mierswa Constr. Co., 1619 Oregon St., Oshkosh, $15,830. Noted Dec. 14.

### CONTRACTS AWARDED

**R. I., Scituate**—Water Supply Bd., City Hall, Providence, 2,200 hp. water wheel for 80 ft. head, to S. Morgan Smith Co., Hartley and Lincoln Sts., York, Pa.; 1,500 kw. generator, switchboard and six 22,000/2,300-volt transformers, to Westinghouse Electric & Mfg. Co., 393 Harris St., Providence; electric wiring, incl. duct and pole lines and various appurtenances, to Peerless Electric Co., 73 Exchange Pl., Providence; 5 ton and 20 ton electric crane, to Harnischfeger Corp., 38th St. and National Ave., Milwaukee, Wis. Noted May 7.

**Conn., Milford** — Milford Water Co., 24 Broad St., steel standpipe, 55 ft. high, 50 ft. diam., 800,000 gal. capacity, to Chicago Bridge & Iron Wks., 37 West Van Brunt St., Chicago, Ill.

**Conn., New Haven**—New Haven Water Co., 100 Crown St., stand pipe, 53 ft. high, 40 ft. diam., incl. about 75 tons steel plates, Summit St., to Chicago Bridge & Iron Wks., 37 West Van Brunt St., Chicago, Ill.

**New York**—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, alterations to structures along 72 in. steel pipe line necessitated by construction of Conduit Blvd. in Queens and Nassau Counties, to Dooley Stapleton Corp., 257 Delphi Pl., Brooklyn, $37,661. Noted June 18.

**N. Y., Jamestown** — Bd. Pub. Utilities, reservoir, to Mullen, Guinanne & Ludwig, Jamestown, pumps, to Lecourtenay Pump Co., 5 Maine St., Newark, N. J.; motors, etc., to Westinghouse Electric Mfg. Co. Chamber of Commerce Bldg., Pittsburgh, Pa. Total est. $25,000.

**Pa., Phila.** — Dept. Pub. Wks., Bureau Water, Contr. 758, to J. R. Fox, Jr., 2620 West Fletcher St., $5,500; Contr. 759, to Acme Machine Co., 316 North 17th St., $12,-038; Contr. 760, to Huxley Fdry. Inc., 106 Tasker St., $2,150. Grand total $18,688. Noted June 11.

**O., Cincinnati**—Hamilton Co., 22,760 ft. 6 and 8 in. c.i. mains in Water Supply Line 12, Dist. 4, School Sect. Rd., Harrison and Race Aves., and 22,494 ft. 6 and 8 in. mains in Water Supply Line 11, Dist. 4 and 5, Muddy Creek, Anderson Ferry and Foley Rds., to W. Hennigan, 7011 Montgomery Park, Norwood, $45,109 and $44,675 respectively, engrs. est. $50,757 and $51,446 respectively; 41,384 ft. 6 and 8 in. mains in Water Suppl yLine 19, Dist. 1, Osceola Park, Maderia Heights and Drake Rd., to J. Dempsey, 5310 Carthage Ave., Norwood, $76,237, engrs. est. $86,678. Grand total $166,021. Noted June 18.

**Tex., Houston**—City, 2 wells, 1,000 g.m.p. capacity, at Central Pumping Sta., to Layne-Texas Co., 3605 McKinney Ave., Houston, $28,950. Engrs. est. $30,000. Noted May 28.

**Okla., Wewoka**—City, waterworks extensions, incl. Imhoff tank, 26,400 ft. 4 and 6 in. c.i. mains, etc., also 7 mi. sanitary sewer extensions, disposal plant, etc., to Park & Moran, Box 622, Okmulgee, $84,619. Engrs. est. $100,000. Noted May 28.

**Ont., Forest**—Cast iron pipe, to Gartshore Thompson Pipe & Fdry. Co., Hamilton, $30,044; trenching and laying mains, to P. Mohan, Hyman Hall, London, $9,330; hydrants and valves, to Canadian Valve & Hydrant Co., Brantford. Engrs. total est. $50,000. Noted June 11.

**Ont., Crystal Beach**—P. E. Ryan, reeve, intake pipe, to Gardner Constr. Co., 22 Cross St., Welland, $33,700; filters, to Canadian International Filter Co., Confederation Life Bldg., Toronto, $10,750; elevated tank, to Toronto Iron Wks., Cherry St., Toronto, $11,572; equipment, to Turbine Equipment Co., 73 King St. Toronto, $9,500. Noted May 21. Grand total $65,-522.

## Sewers

### PROPOSED WORK

**Mass., Melrose** — Bd. Aldermen plans sewers in various streets. $25,000. Engineer not selected.

**Mass., Quincy** (Boston P. O.) — Plans sanitary sewers in various streets. $30,-000. Engineer not selected.

**R. I., Providence**—Plans sewerage works in Seamans St., Thurbers, Wayland, Whipple and Wyndham Aves. $25,000. J. B. Ballard, chn. Com. on Sewers.

**Tenn., Alton Park** — See "Streets and Roads."

**Tenn., St. Elmo** — See "Streets and Roads."

**O., Columbus**—Making plans 746 ft. 6 and 8 in. sanitary sewer, etc., in Ellsworth Ave., $1,694; 12,850 ft. 6- to 12-in. sanitary sewer, etc., in alley east Eastview Ave., $29,393; 6,617 ft. 10- to 24-in. combined sewer, etc., in alleys north 18th and 20th Aves., $24,311. R. H. Simpson, city engr.

**O., Columbus**—See "Streets and Roads."

**O., Dayton** — Montgomery Co. making plans 12- to 48-in. storm and sanitary sewers in Residence Park, Keefer Plat and Fairview Knolls. $110,000. K. B. Allen, Keith Bldg., engr.

**Mich., Adrian**—Made plans sewage treatment plant, incl. pumping station, 85 x 86 ft. imhoff tank, 8,000 sq.ft. sludge drying beds. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

**Mich., Bloomfield Hills** (Birmingham P. O.)—See "Waterworks."

**Mich., Detroit** — Made plans vitr. crock sewers, 2,457 ft. 10- to 20-in. in Lateral 4333, 10,408 ft. 15- to 30-in. and 763 ft. 33 and 36 in. circular section Lateral 4362, 115 ft. 12 in. Lateral 4383, 5,740 ft. 12- to 20-in. Lateral 4387, 2,546 ft. 12- to 24-in. Lateral 4388, 724 ft. 12- to 15-in. Lateral 4390, 659 ft. 12- to 15-in. Lateral 4391, 367 ft. 15 in. Lateral 4392, 804 ft. 15- to 18-in. Lateral 4395, 483 ft. 12- to 15-in. Lateral 4397, 489 ft. 12- to 15-in. Lateral 4398, 4,112 ft. 12- to 18-in. Lateral 4243, 1,913 ft. 12- to 18-in. Lateral 4403. P. A. Fellows, city engr.

**Mich., Ecorse**—Making plans 30,000 ft. 8- to 20-in. sanitary sewers in various streets. $120,000. M. L. Brown & Son, 407 Capitol, Bldg., Detroit, engrs.

**Wis., Kenosha**—Making plans 3 to 4 mi. 8- to 18-in. vitr. or concrete sewers in various streets. Alvord, Burdick & Howson, 8 South Dearborn St., Chicago, Ill., engrs.

**Tex., Brownsville**—Election soon $100,-000 or more bonds extending water, electric and sewerage systems from present terminus to connect with new Villa Nueva Academy. Address A. B. Cloe, mayor.

**Mo., Clayton**—St. Louis Co. making preliminary plans sanitary sewers and laterals in Sewer Dists. 12, 13, 14, 15 and 16. F. M. Dozier, Court House, engr.

**Mo., Jackson**—Election June 30, $65,000 bonds 2 disposal tanks, 47,130 ft. 6- to 12-in. vitr. clay sewers, etc., in various streets. E. Flad & Co., 1312 Chemical Bldg., St. Louis, engrs.

**Mo., La Plata**—Voted $50,000 bonds complete vitr. clay sanitary sewerage system in various streets. W. B. Rollins & Co., 521 Railway Exch. Bldg., Kansas City, engrs. Noted May 14.

**Mo., St. Clair**—Making preliminary plans 6- to 12-in. vitr. clay sanitary sewers in various streets. $35,000. E. Flad & Co., 1312 Chemical Bldg., St. Louis, engrs.

**Mo., Sikeston** — Plans election $150,000 bonds sanitary sewers in various streets, 50,000 ft. 8- to 48-in.

**Mo., Troy** — Making preliminary plans 31,560 ft. 6- to 12-in. vitr. clay sewers, manholes, etc., in various streets. $40,000. E. Flad & Co., 1312 Chemical Bldg., St. Louis, engrs.

**Ariz., Flagstaff** — Making plans sewage treating plant. Burns & McDonell Eng. Co., 402 Interstate Bldg., Kansas City, Mo., engrs.

**Calif., Alhambra**—Voted $135,000 bonds extending sewers in various streets.

**Calif., Santa Barbara**—Made plans East Side lower sewerage system, 18,400 lin.ft. 6- to 14-in. vitr. pipe, 8,500 cu.yd. excav., etc. To exceed $40,000. G. D. Morrison, city engr.

**Calif., Ventura**—Voted $130,000 bonds, for extending sewers in various streets. Noted Apr. 30.

**Calif., Yuba City**—Making plans sewerage system and disposal plant. To exceed $25,000. E. Von Geldern, city engr.

**Calif., Watsonville**—Plans election $146,-000 bonds extending sewers in various streets.

**Ont., Toronto**—East York Twp., Sammon Ave. Municipal Yard, making plans 3,200 ft. 15 in. rein.-con. and vitr. tile sewers in Cosburn Ave. $76,192. G. R. Jack, twp. engr.

### BIDS DESIRED

**Mass., Boston**—July 1, by Dept. Pub. Wks., sewerage works in Oswego St., Boston proper; July 2, in Locust St., Dorchester; July 6, in La Grange St., West Roxbury, and July 7, Potomac St., West Roxbury, $25,000. J. A. Rourke, comr.

**N. Y., Long Island City**—June 29, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers, etc., in Flushing Ave. from Meta Pl. to Fresh Pond Rd. and in Fresh Pond Rd. from Flushing Ave. to Hemlock Pl., 2nd Ward.

**N. Y., New York** — June 29, by J. A. Lynch, pres. Richmond Boro, Boro Hall, temporary sewers in Willowbrook Rd., Bradley and Buchanon Aves.

**N. Y., New York** — See "Streets and Roads."

**N. Y., West Seneca** (mail Buffalo)—July 1, by Town Board, Lind Ave., Gardenville, sewerage system and disposal plant, in Sewer Dist. 5, here. $100,000. G. C. Diehl, 575 Ellicott Sq., Buffalo, engr.

**N. J., Plainfield** — July 6, by Common Council, City Hall, storm sewers in various streets. A. W. Vars, city engr.; adv. E. N.-R. June 25.

**N. J., Sayreville**—July 1, by Boro Council, 2,000 ft. 8 in. vitr. and 3,581 ft. 4- to 6-in. c.i. sanitary sewers in various streets. F. C. Schneider, New Brunswick, engr.

**S. C., Leesville**—July 28, by Town Bd. of Commissioners, at office of C. D. Barr, Jr., chn., 15,000 lin.ft 8 and 10 in. vitr. clay sewers, etc., in various streets. Carolina Eng. Co., 917-919 Johnston Bldg., Charlotte, engrs. G. H. Bishop, consult. engr.

**Fla., Deland**—See "Streets and Roads."

**Fla., Haines City** — See "Streets and Roads."

**Fla., Tampa**—June 30, by City Commissioners, City Hall, constructing storm sewers in Jackson, Drew, Brush, Governor, Jefferson, Pierce, Morgan, Marion and Florida Sts. $26,000.

**Miss., Belzoni**—July 8, by City Council at office F. M. Pepper, city clk., improvements, extensions and additions to sanitary sewerage system. D. M. Forester, city engr.

**O., Columbus**—See "Streets and Roads."

**Ill., Galesburg**—See "Streets and Roads."

**Ill., Winthrop Harbor**—See "Streets and Roads."

**Wis., Grantsburg**—July 7, by C. A. Taylor, city clk., 8,800 lin.ft. 8 in., 2,000 ft. 10 in. and 840 ft. 12 in. vitr. sanitary sewers, etc., in various streets. $30,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, Minn., engrs.

Sewers (Continued)

**Calif., Beverly Hills**—City Trustees taking new bids Sewer Contr. 3, 6,673 ft. 6- to 8-in. pipe; Contr. 4, 3046 ft. 8-in. pipe; Contr. 5, 8,582 ft. 8- to 12-in. pipe. $160,000 bonds voted. Former bids returned unopened due to error in proceedings. Salisbury, Bradbury & Taylor, Mortgage Guarantee Bldg., Los Angeles, engrs. Noted May 14.

**Ont., Toronto**—June 29, by H. E. Goddard, clk., East York Twp., Sammon Ave. Municipal Yard, electric driven air compressors or blowers, pipes, traveling crane, etc. Wynne Roberts Son & McLean, 88 Church St., consult. engrs.

**BIDS RECEIVED**

**N. H., Manchester** — L. B. Hoyt, surv., Dept. Highways, City Hall, completing construction and installing for city Beach Street Intercepting Drain, incl. branch drain and appurtenances, from T. G. Jewett, Jr., New Bedford, Mass., $114,968. Engrs. est. $130,216. Noted June 4.

**Mass., Boston** — Dept. Pub. Wks., June 15, sewerage works in Tremont St., etc., from D. Christoposo & Bros., 18 Hemlock St., Rosindale, $26,223. Noted June 11.

**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., June 17, sewers in 150th St., from Muccinni & Decker, **(A)** $749,850, from Hammen Constr. Co., 279 Madison Ave., Perth Amboy, N. J., **(B)** $546,830; sewer in 20th St., from J. Gallo, 203 Division St., Brooklyn, **(A)** $51,904, from Welsh Bros. Contg. Co., 32 Queens St., Astoria, **(B)** $35,738. Noted June 11.

**O., Akron** — W. F. Peters, dir. Pub. Serv., June 8, **(e. e. means engrs. est.)**, 17,620 ft. 8- to 18-in. vitr. clay sewer in Alton Dr. et al., and 12,520 ft. 8- to 18-in. in West Market St. et al., from L. Crano & Co., Peoples Savings & Trust Bldg., $54,412, and $48,993 respectively, e. e. $72,600 and $64,800 respectively; 270 ft. 39 in. brick and 400 ft. 8- to 14-in. vitr. clay sewer in South Main St., from Shullo Constr. Co., 990 Chalker St., $10,739, e. e. $12,000; 4,285 ft. sewer in Laffer Ave. et al., from W. McDowell & Sons Co., 4120 East 104th St., Cleveland, brick $22,947, segmental block $22,461. Noted June 4.

**O., Cleveland** — Cuyahoga Co., June 10, 5,500 ft. 8- to 60-in. vitr. clay sewer in Wagar Rd., Impvt. 600, from Gallagher-Burke Co., 1228 Bonnieview Ave., Lakewood, $66,648; 21,000 ft. 8- to 27-in. vitr. clay sewer in Chestnut Hill Dr., from Winterbottom-Connelly Co., 1406 West 25th St., $83,508. Noted June 4.

**Calif., La Habra** — Directors La Habra Sanitary Dist., 25,630 ft. 10- to 15-in. **(a)** vitrified or **(b)** concrete outfall sewers in various streets, from O. K. Hearte, 1530 Paloma Ave., Pasadena, **(a)** $39,348 **(b)** $38,835. Noted May 28.

**Calif., Long Beach** — From G. Giebisch, Virgil Walk, concrete sewer in Cherry Ave., 41,442 lin.ft. 8 in. pipe at $0.85 per ft., 3,717 ft. 10 in. $0.97, 8,972 ft. 12 in. $1.20, etc., total $65,712. Engrs. est. $72,636.

**Wash., Centralia** — City Council trunk sewer, laterals, treating plant, etc., from J. F. Shea & Co., Henry Bldg., Portland, Ore., $74,660. Engrs. est. $70,000. Noted June 4.

**CONTRACTS AWARDED**

**Mass., Boston** — Dept. Pub. Wks., City Hall, Boston, ⅛ mi. sewerage works for Brook Sewer, Private Land, Lawrence and Blue Hill Aves., here, to C. and R. Constr. Co., 67 Harrison St., E., $73,441. Noted May 14.

**Mass., Boston**—Dept. Pub. Wks., sewerage works in Western Ave., Brighton, to A. Cefalo, 316 Belgrade Ave., Rosindale, $19,015; in River St., Hyde Park, to A. Piatelli, 10 Ambrose Terrace, Dorchester, $24,051. Noted June 11.

**N. Y., New York** — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Ave., sewers in Allerton Ave., to Knight & DeMicco, Inc., 448 East Tremont Ave., $19,815; Duncan St., to M. Del Balso, 660 East 221st St., $108,441. Noted June 11.

**Pa., Gettysburg**—Boro Council Chamber, sewage disposal plant, outfall sewer and Imhoff tanks, to H. C. Brooks, Martinsburg, W. Va., $49,950. Noted May 28.

**Miss., Meridian**—See "Streets and Roads."

**O., Akron**—W. F. Peters, dir. Pub. Serv., rebuilding 1,700 ft. 12- to 15-in. vitr. clay and 4,350 ft. 30- to 63-in. brick sewer preliminary to abolishing grade crossings at Buchtel Ave. and Exchange St., Contr. 1, to E. and W. McShaffrey, 574 Rhodes Ave., $118,995. Engrs. est. $150,000. Noted June 11.

**O., Cleveland**—City, 1,715 ft. 12 in. vitr. tile sewer in Brazil and Lakeport Rds., to N. Carroccio, 14109 Benwood Ave., $5,291; 1,025 ft. 12 in. vitr. tile sewer in Maywood Ave., to A. J. Galvin, Hunkin-Conkey Bldg., $2,873; 4,630 ft. 12- to 24-in. vitr. tile sewer in Neff Rd., H. P. Ante Constr. Co., Ulmer Bldg., $14,991; 1,450 ft. 12- to 24-in. vitr. tile sewer in East 149th St., to Hadded-Mall Co., Schofield Bldg., $5,482; 50 ft. 6 c., 285 ft. 4 ft. 9 in., 235 ft. 5 ft. and 350 ft. 5 ft. 3 in. segment block sewer in East 140th St., to Hadded-Mall Co., Schofield Bldg., $20,283. Noted May 28.

**Wis., Watertown**—F. Weber, city clk., 3,605 lin.ft. 8 and 10 in. vitr. and 556 lin.ft. 10 in. c.i. sanitary, also 5,630 ft. 10 and 24 in. vitr. storm sewers, etc., in various streets, to A. Luebke, 706 9th St., $25,218. Noted June 11.

**Wis., Whitefish Bay**—J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., Milwaukee, 9,350 ft. 42 in. concrete sewers, etc., in Whitefish Bay extension, here, to Nevada Constr. Co., Nevada, Ia., $215,110. Noted June 4.

**Mo., St. Louis**—Bd. Pub. Wks., 208 City Hall, 8,345 ft. 8- to 36-in. vitr. clay sanitary sewers in Harlem Creek Dist. 16, to Frazier Davis Constr. Co., Arcade Bldg., $25,930. Engrs. est. $35,500. Noted May 21.

**Tex., San Antonio** — For 1 mi. outfall sewer line from outside city limits to Mitchell Lake, to McKenzie Constr. Co., Travis Bldg., $95,000. Noted June 18.

**Tex., Port Arthur**—For 16,000 ft. sewer extensions in various street, to Kirkwood, Wharton & Lee, 300 Blk. West Commerce, San Antonio, $83,000. Noted June 4.

**Okla., Wewoka**—See "Waterworks."

**Wash., Hoquiam**—Sewers in 24th St., to F. A. Keasal Constr. Co., Hoquiam, $45,009.

**Ont., Walkerville** — Sewers in Lincoln, Victoria and Windermere Rds., to Merlo, Merlo & Ray, Sandwich St., Ford City. Engrs. est. $98,000.

**Ont., Windsor**—Sewers in Douglas Ave., to Merlo, Merlo & Ray, Sandwich St., Ford. Engrs. est. $35,000.

## Bridges

**PROPOSED WORK**

**Miss., Yazoo**—See "Streets and Roads."

**Tennessee**—See "Streets and Roads."

**Illinois** — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids May 11, bridge on Route 32, Sect. 4-B, Moultrie Co. F. T. Sheets, ch. highway engr. Noted May 28.

**Ark., Dardanelle**—Yell Co. (Dardanelle) and Pope Co. (Russellville), voted $600,000 bonds and Federal Aid appropriated $300,000 for rein.-con. and steel bridge to replace present pontoon bridge across Arkansas River, here. Noted Apr. 16.

**Tex., Houston** — Turning Basin Dist., City, and Harris Co., making plans concrete and steel bascule lift span bridge across Ship Channel, at 71st St. $200,000. J. C. McVea, city engr. Howe & Wise, 816 1st Natl. Bank Bldg., engrs.

**Tex., Paducah**—See "Streets and Roads."

**Ont., London**—Plans 275 ft. concrete and steel bridge, Ridout St. $100,000. W. P. Near, city engr.

**BIDS DESIRED**

**N. J., Freehold**—July 8, by Bd. Freeholders Monmouth Co., constructing Bridges F-31, 32, 33, 34, 37 and MN-52. B. B. Newcomb, dir.; adv. E. N.-R. June 25.

**S. C., Beaufort** — June 30, at office Bd. Directors Beaufort Co., 73 ft. rein.-con. bridge over Tide Water Creek, on State Route 30, Federal Aid Project 95C. A. T. Brown, Scoville Bldg., Orangeburg, engr.

**Miss., Jackson**—See "Streets and Roads."

**Louisiana**—June 30, by State Hy. Dept., Reymond Bldg., Baton Rouge, creosoted pile trestle bridge on State Aid Project 355-D, Winnfield-Chestnut Highway, 38,900 ft. creosoted and 28,000 ft. untreated lumber, and 27,000 ft. creosoted piling. W. B. Roberts, ch. engr.

**Wis., Milwaukee**—June 29, by F. Schumacher, secy. Park Bd., City Hall, superstructure of bridge and runways, at Mason St. $300,000-$400,000. Clas, Shepherd & Clas, 445 Milwaukee St., engrs. Noted May 21.

**Wyoming**—June 30, by Comrs. State Hy. Dept., Cheyenne, 140 ft. steel truss span on Wheatland-Douglas Rd., Federal Aid Project 165-A, Platte Co., $25,000; 130 ft. steel truss span bridge over Cottonwood Creek, Federal Aid Project 106, Washakie Co., $31,500; two 30 ft. span concrete bridge over Box Elder Creek, one 30 ft. concrete span bridge, etc., over Alkali Creek, also two 30 ft. span concrete bridge over La Prelle Creek, all on Federal Aid Project 166-A, near Careyhurst, Converse Co., $30,000; one 80 ft. steel truss and 4 timber span bridge, etc., on Federal Aid Project 165-A, near Wheatland, Platte Co., $26,000. J. F. Seiler, Cheyenne, highway engr. for above; four 19 ft. and two 18 ft. span timber bridges, also one 80 ft. steel and two 38 ft. steel I-beam span bridges, etc., on Federal Aid Project 178-A, Sheridan Co., $30,000. S. R. Wood, Sheridan, engr.

**Wyoming**—See "Streets and Roads."

**Arkansas**—See "Streets and Roads."

**Washington** — July 14, by State Hy. Comn., Olympia, one 200 ft. steel truss and 515 ft. concrete T-beam approach span bridge across Skokomish River, on State Rd. 14, Mason Co. J. W. Hoover, highway engr.

**BIDS RECEIVED**

**North Carolina** — State Hy. Comn., Raleigh, concrete bridges and culverts, on Project 127, Edgecombe Co., from Sparling Constr. Co., Nashville, $42,878; also on Project 405, Chatham Co., from J. S. Bowers, Whiteville, N. C., $47,526. Noted June 4.

**Alabama**—City Comn. of Mobile received estimates from Hedrick, Smith & Frost, engrs., Portland, Ore., for steel bridge across Mobile Bay from Mobile to Baldwin Co. $3,500,000.

**Tex., Cameron**—See "Streets and Roads."

**California** — State Hy. Comn., Sacramento, two 60 ft. and two 34 ft. span rein.-con. girder bridge across Truckee River, at Prosser Creek, also one 57 ft., one 30 ft. and two 42 ft. span rein.-con. girder bridge across Southern Pacific R.R. tracks, at Hinton, both 21 ft. wide, Nevada Co., from T. H. and M. C. Polk, Chico, $23,095 and $18,825 respectively; one 144 ft. open and two 40 ft. approach span bridge across Truckee River, near Boca, Nevada Co., from Rocca & Caletti, 609 C St., San Rafael, $30,191.

**California**—Yuba Co. (Marysville) and Sutter Co. (Yuba City), 585 ft. steel and timber bridge over Bear River, from Jenkins & Elton, 36th and Y Sts., Sacramento, $36,344.

**CONTRACTS AWARDED**

**Mass., Boston**—Dept. Pub. Wks., rebuilding concrete and steel bridge over tracks New York, New Haven & Hartford R.R. tracks, at Massachusetts Ave., to Boston Bridge Wks., 47 Winter St., $64,390. Noted June 18.

**Miss., Columbus**—Lowndes Co., creosoted timber spring span and two 90 ft. steel span bridge over Tombigbee River, to S. J. Riley, International Life Bldg., St. Louis, Mo., $147,460.

**Illinois**—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, bridge on Route 2, Sect. 3-V, Jackson Co., to W. Lough & Sons, Marion, $14,661; bridge on Route 22, Sect. 11-B, Cook Co., to Maderis-Barnett Co., Greenfield, $27,223; bridge on Route 31, Sect. 18-B, Fulton Co., to M. R. Deyo, Peoria, $69,905; bridge on Route 40, Sect. 11-B, Carroll and JoDaviess Counties, to Chernus Constr. Co., Minneapolis Minn., $49,846. Noted May 28.

**Ia., Atlantic** — Cass Co., 5 box and 5 circular culverts, to Wilson Concrete Co., Red Oak, $10,000; 18 culverts, to F. O. Akin, Atlantic, $17,800; 50 ft. pony truss bridge, to Standard Bridge Co., City Natl. Bank Bldg., Omaha, Neb., $2,799; grading 1.941 mi, Federal Aid Project 44-C, to G. W. Condon, 510 Farnam, Omaha, Neb., at $0.189 per cu.yd.

**Minnesota** — Inter-City Bridge Com., C. M. Babcock, chn., 1246 University Ave., St. Paul, 1,600 ft. rein.-con. bridge, incl. 4 river piers, three 300 ft. and two 140 ft. spans, etc., over Mississippi River, between St. Paul and Minneapolis, to J. O. Heyworth, Inc., 606 South Michigan Ave., Chicago, Ill., main structure $1,332,984, also supplementary contract, tentatively, for Minneapolis approach $105,000. Noted Apr. 30.

**Missouri** — State Hy. Dept., Jefferson City, to J. A. Carlson, Macon, one 45 ft. rein.-con. deck girder span, etc., over Coon Creek $10,263, one 60 ft. steel truss span, etc., over Little Fabius Creek $8,870 and two 12 ft. rein.-con. slab spans, etc., over Norweglan Creek $3,618, all in Knox Co.; to Robertson-Carmean Co., Caruthersville, three 45 ft. rein.-con. deck girder spans, etc., over South River, Marion Co., $7,517; to Cole Jobe, Clarksburg, two 12 ft. rein.-con. slab spans, etc., over Dry Fork Branch $2,515, two 12 ft. rein.-con. slab spans, etc., over creek $2,458, two 12 ft. rein.-con. slab spans, etc., over Long Branch $2,643, two 10 ft. rein.-con. slab spans, etc., over Bailey Branch $1,997, all in Moniteau Co.; to F. C. Teach, Morocco, Ind., one 80 ft. steel truss span, etc., over Tobin Creek, Scotland Co., $10,456; to Pioneer Constr. Co., 101

Bridges (Continued)

New York Life Bldg., Kansas City, five 80 ft. steel truss spans, etc., over east fork of Black River, Reynolds Co., $34,952; to R. F. Williams, Charleston, three 20 ft. I-beam spans, etc., over Drainage Ditch 7 $6,402, three 20 ft. I-beam spans, etc., over Drainage Ditch 3 $5,731, both in Pemiscot Co.; to L. A. Woods Constr. Co., Smithville, two 20 ft. rein.-con. slab spans, etc., over stream, Audrain Co., $5,419; to Schull & Milton, California, two 20 ft. rein.-con. slab spans, etc., over Sappington Branch $2,785, two 12 ft. rein.-con. slab spans, etc., over Birdsong Creek, $2,120, both in Moniteau Co.; to Kelly & Underwood, Granby, two 12 ft. rein.-con. slab spans, etc., over creek, Knox Co., $3,500; to Fogleman & Davidson, Eugene, one 120 ft. and two 80 ft. steel truss spans, etc., over Saline Creek, Miller Co., $27,379; to F. T. O'Dell, New London, two 80 ft. steel truss spans, etc., over middle fork of South Fabius Creek, Scotland Co., $24,182; to J. R. Feigle Co., Evansville, Ind., three 16 ft. I-beam spans, etc., over DrainageDitch 24, $5,390, three 14 ft. I-beam spans, etc., over Drainage Ditch 22, $4,865, both in Pemiscot Co.; to Gaines Bros., Fairland, Okla., two 18 ft. rein.-con. slab spans, etc., over Grindstone Creek $2,840, one 45 ft. rein.-con. deck girder span, etc., over Silver Fork, $11,029, both in Boone Co.; to M. E. Gillioz, Monett, two 20 ft. rein.-con. slab spans, etc., over Little Beaver Creek $5,111, two 12 ft. rein.-con. slab spans, etc., over stream, $5,184, both in Phelps Co.; to Thomas & Samson, Bonnots Mills, repairing bridge over Bourbouse River 4 mi. east of Union, Franklin Co., $995. Grand total $198,221. Noted June 11.

**Texas** — Palo Pinto Co., bridge over Brazos River, at Brazos, and bridge 7 mi. north of Palo Pinto, to Austin Bridge Co., 1815 Clarence St., Dallas, $39,500. Engrs. est. $40,000.

**Tex., Huntsville** — See "Streets and Roads."

**Tex., San Antonio**—For 2 span 110 ft. rein.-con. and steel bridge across San Antonio River, at St. Marys St., to McKenzie Constr. Co., Travis Bldg., $30,500. Noted June 4.

**Washington**—State Hy. Comn., Olympia, 4 Everett-Marysville bridges, incl. nine 178 ft. and one 138 ft. steel truss, two 290 ft. steel swing, one 145 ft. steel vertical lift, and approximately 2,260 ft. concrete girder spans, etc., on State Rd. 1, Snohomish Co., to J. A. McEachern Co., Inc., 532 Colman Bldg., Seattle, $972,927. Noted May 14.

## Dams

### CONTRACTS AWARDED

**Calif., Merced**—Merced Irrigation Dist., Barcroft Bldg., Schedule 1, 14 plate steel gate leaves, to Llewellyn Iron Wks., Main and Redondo Sts., Los Angeles, $40,930; Schedule 2, 14 cast steel bearing plates, and two 84 sect. crest. plates, to Stockton Iron Wks., Stockton, $2,360 and $1,759 respectively; Schedule 3-8, 75 ton traveling crane, to Cyclops Iron Wks., 837 Folsom St., San Francisco, $12,248; Schedule 9, 1 vertical centrifugal pump with motor, 2 hydraulic ejectors, and 2 pump, sump covers, to United Iron Wks., 580 2nd St., Oakland, $1,581; Schedule 10, 1 oil pressure pump and motor, to Smith-Booth-Usher Co., 50 Fremont St., San Francisco, $2,750; Schedule 11, oil supply tank, pipe and valves, to Moore Dry Dock Co., foot of Adeline St., Oakland, $523. Noted May 7.

## Excavation, Drainage, Irrigation, Levees

### PROPOSED WORK

**Mass., South Boston** (Boston P. O.)—Boston Harbor Oil Co., 279 Northern Ave., Boston, plans dredging in Boston Harbor and constructing pile pier in extension of breakwater east of Commonwealth Pier 6, here. $25,000 or more. Engineer not selected.

**Tex., Brownsville**—Cameron Co. election soon $600,000 bonds for drainage work, concrete canals and ditches in El Jardin D. D., c/o E. Sethman, Brownsville. O. C. Dancy, co. judge.

### BIDS DESIRED

**N. Y., Buffalo**—July 6, by Comn. Public Wks., dredging and widening Buffalo River westerly side of channel from south line of Lots 65 to point 550 ft. northerly. To exceed $40,000. C. E. P. Babcock, Municipal Bldg., engr.

### DRAIN—GRAND RAPIDS, MICH.

Following are lowest three bids opened by City, Apr. 22, for Coldbrook Creek Drain. Contr. F-6. (A) Swingle & Robinson, Wyandotte; (B) Central Construction Co., Chicago Heights, Ill.; (C) Peninsular Construction Co., Grand Rapids. The unit bids are as follows:

| | A | B | C |
|---|---|---|---|
| 2,498 ft. reinforced concrete drain, sta. 0 to sta. 24 and 98 | $21 60 | $26 06 | $25 00 |
| 1,852 ft. reinforced concrete drain, sta. 25 and 10 to sta. 43 and 62, type "C" (arch) | 20 40 | 14 74 | 20 00 |
| 1,852 ft. reinforced concrete drain, sta. 25 and 10 to sta. 43 and 62, type "D" (box) | 22 47 | 17 01 | |
| Junction chamber at Fuller N. of Michigan (lump sum) | 500 00 | 250 00 | 500 00 |
| Overflow chamber at Fuller Ave. and Lyon St. (lump sum) | 200 00 | 80 00 | 250 00 |
| 4,430 ft. vitrified clay or concrete pipe underdrainage | 80 | 1 00 | 60 |
| 150 cu.yd. additional earthwork | 1 50 | 1 00 | 2 00 |
| 5 M ft. BM timber left in place | 60 00 | 30 00 | 65 00 |
| 100 cu.yd. additional class "A" concrete | 12 00 | 17 00 | 15 00 |
| 10 cu.yd. additional class "C" concrete | 9 00 | 10 00 | 10 00 |
| 10,000 lb additional steel reinforcement | 06 | 04 | 05 |
| 50 cu.yd. gravel refilling | 3 00 | 3 00 | 3 00 |
| 2 cu.yd. additional brick masonry | 50 00 | 15 00 | 25 00 |
| 6 manholes, type "A", type "B" or type "D" | 75 00 | 60 00 | 90 00 |
| A.S.T.M. vitrified clay or concrete pipe and specials ($270.18) | 60% | 50% | 20% |
| Extended totals | $99,205 | $100,331 | $106,579 |

### CONTRACTS AWARDED

**Mass., Chatham**—Dept. Pub. Wks., Div. Waterways, Boston, dredging 50,000 cu.yd. material from Mitchels River, here, to Bay State Dredging Co., 62 Condor St., East Boston, $16,520.

**N. Y., Buffalo** — Dept. Pub. Wks., Municipal Bldg., dredging Sect. 4, Part 1, Cazenovia Creek, to Cleveland Eng. Constr. Co., 778 The Arcade, Cleveland, O., $0.42 per cu.yd. Noted Apr. 23.

**N. Y., New York**—Dept. Docks, Pier A, North River, dredging between Pier new No. 1 and Pier Old No. 4 and removing old Pier 1, Contr. 1859 to E. Breyman, 17 Battery Pl., $24,110. Noted June 11.

**Mich., Saulte Ste. Marie**—Edison Saulte Electric Co., 115 Ashmun St., deepening headrace of government power plant, from Dunbar & Sullivan Dredging Co., Dime Bank Bldg., Detroit, $115,000. Noted May 21.

**Ill., Danville**—Hoopeston D. D., c/o Clark & Hutton, attys., 1st Natl. Bank Bldg., 13,500 cu.yd. excav. open ditch, to C. M. Gassett, Hoopeston, $4,500; 1,340 ft. 12- to 27-in. vitr. clay drain tile laid, etc., to Anno & Nohl, Havana, $27,875.

**Minn., Fairmont**—W. M. Canfield, aud. Martin Co., approximately 25,541 lin.ft. 6- to 28-in. tile for Judicial Ditch 111, to Ceylon Cement Tile Co., Ceylon, $16,486. Noted June 4.

**Neb., Lincoln** — Sanitary Dist. 1, Lancaster Co., c/o Peterson & Devoe, Bankers Life Bldg., to Martin-Day Co., 310 Little Bldg., new channel Salt Creek and diversion dams, 135,000 cu.yd. excav. at $0.10 per cu.yd., one hundred 16 ft. cypress piling $1.75, and 18.96 ft. lumber $120 per ft. Noted June 18.

**Okla., Ardmore**—Johnson Bros., excavation for 1 story, 80 x 190 ft. cold storage plant, rein.-con. and brick, plain foundation, to T. Snelson, Ardmore, $11,116. This corrects report in June 18 issue.

**Okla., Chandler**—Lincoln Co., cleaning Kickapoo D. D. 4, 88,300 cu.yd. excav., 371 cu.yd. concrete, etc., to O. M. Cole, Luther, $22,863. Engrs. est. $30,000. Noted May 14.

**Okla., Wewoka**—Seminole Co., 392,000 cu. yd. excav. in Wewoka Creek D. D., to D. Long, Wewoka, approximately $36,000.

**Ont., Owen Sound**—Dept. Pub. Wks., Ottawa, dredging harbor, to Canadian Dredging Co., King St., Midland, $88,500.

**British Columbia** — S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., dredging Courtenay River channel, etc., to Arnett Dredging Co., Dominion Bldg., Vancouver, $35,000. Noted Apr. 30.

## Streets and Roads

### PROPOSED WORK

**Mass., Boston**—Dept. Pub. Wks. plans reconstructing and improving Columbia Rd. from Upham Corner to Blue Hill Ave., Dorchester, $91,000 bonds voted; also reconstructing Broad St. from State St. to Atlantic Ave., here, $37,000 bonds voted. R. A. Rourke, comr.

**Mass., Boston** — Dept. Pub. Wks. plans resurfacing and improving Warren St., Roxbury, $75,000; Meridian St., East Boston, $57,400; and Oliver St., City Proper, $30,000. J. A. Rourke, comr.

**Mass., Cambridge** (Boston P. O.)—Plans reconstructing 6th St. from Otis to Thorndike Sts. $35,000 appropriated. Engineer not selected.

**Mass., Dorchester** (Boston P. O.)—Street Laying Out Dept., City Hall, plans constructing Wales Pl. and Rosemont Rd. as highways, here. $25,000. J. F. Sullivan, secy.

**Mass., Melrose** — Bd. Alderman plans macadamizing Rockland St., Lyde Ave., etc., $35,000. Engineer not selected.

**R. I., Providence**—Pub. Wks. Dept. plans reconstructing North Main St. as boulevard between Grand View and White Sts. $198,000 appropriated. W. F. Slade, chn.

**R. I., Providence** — Plans asphalt resurfacing Glenbridge Ave., Dexter, Peace and Killingly Sts. $25,000. W. F. Slade, chn. Pub. Wks.

**N. J., Roselle** (Ind. br. of Elizabeth)—Plans paving Golf Terrace and Drake Ave. $110,000.

**W. Va., Beckley** — Raleigh Co. election July 11, $80,000 bonds, improving roads in Clear Fork Dist. W. T. Campbell, Beckley, engr.

**N. C., Camden** — Camden Co., R. L. Whaley, chn. co. highway comn., Belcross, plans grading and surfacing 30 mi. road from South Mills to Old Trap.

**N. C., Morehead City**—City, L. Hamilton, mayor, plans curbing, guttering, paving, sidewalks, and extending sewers in various streets. $125,000.

**N. C., Smithfield**—Plans extensive paving program. W. L. Fuller, city clk.

**Ga., Albany**—Making plans improving 40 blocks various streets. $200,000. C. Q. Wright, City Hall, engr.

**Fla., Wauchula**—Hardee Co. voted $50,000 bonds, constructing 2 mi. Limestone-Lilly Rd. to connect with DeSoto Co.

**Miss., Jackson** — Hinds Co. soon takes bids grading and hardsurfacing 4.61 mi. Jackson-Tougaloo Rd. $48,000. M. L. Culley, city engr.

**Miss., Ripley** — Tippah Co. voted $75,000 bonds, roads in Blue Mountain vicinity.

**Miss., Yazoo City**—Yazoo Co. soon takes bids grading, bridging and hardsurfacing 4.5 mi. Bee Lake-Eden Rd., 18 ft. $120,000. R. C. Limerick, Jackson, engr.

**Tennessee** — State Dept. Hys. & Pub. Wks., Nashville, takes bids about July 13, grading, bridging, and concrete or asphalt on stone surfacing 6 mi. Rockdale-Mt. Pleasant Rd., Maury Co.; concrete or bituminous concrete paving 5 mi. Nashville-Una Rd., Davidson Co.; and grading, etc. 7 mi. Pulaski-Maury Co. line Rd., Giles Co. J. G. Creveling, highway comr.

**Tenn., Alton Park**—Voted $35,000 bonds for curbing, sewers, etc., in various streets.

**Tenn., Cleveland**—Election July 8, $50,000 bonds, grading and paving various streets.

**Tenn., St. Elmo**—Voted $60,000 bonds, for streets, curbing, guttering, sewers and park improvements.

**Kentucky** — State Hy. Dept., Frankfort, rejected bids oil or tar surfacing 7 mi. Project 32-A, Bourbon Co., $4,657, 25.8 mi. Projects 17-D, E and F, Franklin and Scott Counties. Noted May 14.

**O., Canton** — Plans asphalt paving Superior Ave. N. E., $40,000; improving 9th St. S. W., $40,000-$50,000; widening and repaving McKinley Ave. N. W., $60,000. W. E. Sarver, City Hall, engr.

**O., Cleveland** — Plans opening, widening and paving Chester Ave. from East 30th to East 40th Sts. $200,000. R. H. Hoffman, City Hall, engr.

**O., Cleveland**—Bd. Comrs. Cuyahoga Co., plans paving 7 mi. Warrensville-Center Rd., 60 ft. $1,500,000. F. Lander, Court House, engr.

**O., Columbus** — Making plans grading, laying necessary water mains and sewer connections and paving with (a) asphalt (b) brick and (c) concrete 1,884 ft. Tulane Rd., 26 ft., (a) $34,993 (b) $43,910; 2,013 ft. Binns Blvd., 24 ft., (a) $49,000 (b) $61,000; 620 ft. alley west 5th St., 20 ft., (b) $5,576 (c) $4,948; 1,206 ft. Harris Ave., 26

Streets and Roads (Continued)

ft., (a) $17,100 (b) $22,135. R. H. Simpson, city engr.

**O., Dayton**—Plans brick on concrete paving, 8,000 sq.yd. Riverview St. from Salem to Grafton Sts. $44,000. J. F. Hale, city engr.

**Mich., Detroit**—Plans asphalt on 8 in. concrete paving 16,850 sq.yd. Filbert St. $75,950, 1,865 sq.yd. Cutler Ave. $8,400, 5,120 sq.yd. Rich Ave. $22,990, 4,310 sq.yd. Dearing Ave. $19,360, 5,120 sq.yd. Peter Smith Ave. $19,360, 1,330 sq.yd. Ellery St. $6,000, 1,645 sq.yd. Thomas Ave. $7,420, 1,785 sq.yd. Pickford Ave. $8,010, 1,785 sq. yd. Petoskey Ave. $8,640, 480 sq.yd. Dexter Blvd. $2,160, 26,650 sq.yd. Margaretta Ave. $115,750, and 2,300 sq.yd. Wyoming Ave. $10,350. P. A. Fellows, city engr.

**Illinois** — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids Nov. 25, concrete surfacing Route 22, Sect. 21, Lake Co., and Fish Hatchery, Woodford Co. F. T. Sheets, ch. highway engr. Noted Apr. 2.

**Ill., Granite City**—Soon takes bids grading, curbing and brick or concrete surfacing Maple, 19th and 20th Sts. $100,000. W. W. Kerch, 1st Natl. Bank Bldg., engr.

**Ill., Peoria**—Plans grading, curbing and asphalt surfacing 3 blocks East Republic Ave. $17,596; grading, curbing and vitr. brick on concrete surfacing 2 blocks California Ave., $9,571; and grading, curbing and concrete surfacing 1 block East Gift Ave., $7,812, all 30 ft. wide. W. Backes, City Hall, engr.

**Ia., Des Moines** — Making preliminary plans grading, curbing and hardsurfacing 8th, Loomis and Croker Sts. $45,760. K. C. Kastberg, City Hall, engr.

**Minn., Moorhead**—Plans paving 6 blocks 1st Ave. W. between 8th and 11th Sts. and 10th St. S. between 1st and 4th Aves. $25,-000. R. G. Price, city clk.

**Mo., Carrollton**—R. M. Adams, city clk., soon takes bids grading, curbing, 6 in. concrete paving, etc., 10 blocks West 1st St., etc., 24 ft. $25,000. W. W. Robertson, City Hall, engr.

**Mo., Clayton**—St. Louis Co. takes bids about July 7, improving Hanley Rd., 10,290 yd. grading, 10,625 ft. curbing and guttering, 15,700 sq.yd. macadam first base, 19,-700 sq.yd. second base, 19,700 sq.yd. asphalt surfacing, etc. $77,000. Keck Surveying Co., 721½ Chestnut St., St. Louis, engrs.

**Mo., St. Louis** — Bd. Pub. Wks. making plans curbing, concrete or asphaltic concrete paving, etc. Dewey St. from Osceola to Bingham Sts., $4,650 to $5,000, and Detonty St. from Newstead to Vandevanter Sts., $7,500 to $8,100; asphalt, Warrenite, Willite or asphaltic concrete repaving, etc. Garfield Ave. from Prairie to Grand Sts. $18,500 to $21,000, Garfield Ave. from Sarah to Prairie Sts. $26,100 to $31,000, Hawthorne Blvd. from Longfellow to Grand Sts. $102,000 to $119,300, Hartford Ave. from Grand to Morganford Sts. $58,300 to $72,-200, Lynch St. from 13th to Gravois Sts. $60,100 to $71,000, Maryland Ave. from Euclid Ave. to Kingshighway $16,050 to $16,800; concrete or vitr. brick repaving, etc. McCune St. from Tamm St. to Frisco Railroad tracks, $28,200 to $33,300; curbing, asphaltic concrete, asphalt, Warrenite or Willite paving Minnesota St. from Catalan to Davis Sts., $26,000 to $32,150; vibrolithic concrete, Willite, asphalt, Warrenite or brick paving, etc., Tiffany St. from Rutger to Chouteau Sts., $13,900 to $16,200. W. W. Horner, 300 City Hall, engr.

**Mo., St. Louis** — Citizens Gasoline Tax Com. & Streets, Sewers & Wharves com. of Bd. Aldermen, allotted $6,667 gasoline tax funds repairing and resurfacing Skinker Rd. from Wydown to point 1,000 ft. south, $12,-488, for Washington Blvd. from Grand to Spring Sts.; $9,450 for Lucas Ave. from 11th to High Sts., $7,866, Bway. from Cass Ave. to Mullanphy St.; $14,820 Chouteau St. from 1st St. to Bway.; $22,128, 22nd St. from Cass Ave. to Washington Blvd., $33,-954 13th St. from Biddle to Branch Sts.; $5,980 Enright St. from Hamilton to Hodiamont Sts.; $3,946, Lee St. from Newstead to Taylor Sts.; $7,800, Garfield St. from Kingshighway to Union St.; $16,000, Union St. from Page to Easton Sts.; $7,000, Spring St. from Laclede to Pine Sts.; $30,-000 Bway. from Wabash Bridge north to Halls Ferry Rd.; and $30,000, South Bway. from Nebraska Ave., south. A. Brooks, City Hall, chn.

**Mo., Sullivan** — City Clerk, City Hall, takes bids about July 7, combined curbing and guttering 9,400 ft. and rein.-con. paving approximately 15,000 sq.yd. various streets. Alexander Eng. Co., 517 Woodruff Bldg., Springfield, engrs. Noted June 18.

**Ark., Van Buren** — Making preliminary plans grading, curbing and hardsurfacing 28 blocks North 11th, 12th and 13th Sts.

**Tex., Ft. Worth** — Tarrant Co. plans widening Ft. Worth section of Ft. Worth and Dallas Highway 36 ft. $600,000. H. A. Davis, 1954 Hemphill St., engr.

**Tex., Kerrville** — Election soon $50,000 bonds, improving various streets. Engineer not announced.

**Tex., Paducah**—Cottle Co., election soon $75,000 bonds, grading, bridging and gravel surfacing about 9 mi. roads radiating from here. J. H. Whatley, co. judge.

**Tex., Wichita Falls**—Election soon $100,-000 bonds, paving various streets. F. M. Rugely, city engr.

**Okla., Hobert**—Plans grading and concrete surfacing 5 blocks West Kiowa Ave., 40 ft. $25,000. Shockley Eng. Co., Graphic Arts Bldg., Kansas City, Mo., engrs.

**Okla., Lindsay** — Making preliminary plans grading and paving 9 blocks Creek and Kiowa Aves., 26 ft. $40,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

**Okla., Perry**—Noble Co. voted $900,000 bonds, grading and paving 70 mi. various highways. J. M. Page, Oklahoma City, highway engr. Noted May 28.

**Okla., Tahlequah**—Soon takes bids grading, curbing and 6 in. concrete surfacing Delaware, Kee-too-wah and Water Aves. $32,055. Clonts-Morgan Eng. Co., Muskogee, engrs.

**Wash., Everett**—Making plans 6 in. Portland cement or 5 in. concrete paving Bway. and Pine Sts. $50,000.

**Wash., Hoquiam**—City Council takes bids about July 9, concrete paving Monroe and River Sts. et al., 30 ft. $56,224. W. L. Lovejoy, city engr.

**Wash., Tacoma**—Soon takes bids paving Tacoma Ave., Starr and North 30th Sts.; also 16 in. watermains in North Proctor St., etc. $63,000. C. E. Putnam, city engr.

**Calif., El Centro**—Imperial Co. making plans paving 19 mi. highway between Calexico and state highway, Co. Rd. Dist. Impvt. 6. $250,000 or more. P. E. Kressly, H. W. Hellman, Bldg., Los Angeles, engr.

**Calif., Glendale** — Plans 8 in. concrete paving 4 mi. San Fernando Rd., 40 ft. City appropriates $440,000 and Los Angeles Co. $60,000 toward cost.

**Calif., Los Angeles**—Bd. Pub. Wks. takes bids about July 6, grading, paving, curbing, sidewalks asphaltic concrete paving approximately 6,000 ft. Livingston Pl., Chester, Acacia Barbee, 65th, and 14th Sts., Vineland, Saugus, Griffin, and 42nd Aves., etc., to exceed $25,000; also in 4,000 ft. 30th, Delphi, Kearsarge and 4th Sts., etc. H. A. Van Norman, City Hall, engr.

**Calif., Nevada City**—Plans election $50,-000 bonds, macadamizing and scarifying various streets.

**Calif., Pasadena**—Election July 21, $700,-000 bonds, guttering, curbing, sidewalks, 2 in. asphaltic concrete on 7 in. concrete paving Green St. Noted Mar. 26.

**Calif., San Diego**—Common Council plans improving Moore St., 57,009 sq.ft. 1½ in. asphaltic concrete on 5 in. concrete paving, 5,381 lin.ft. curbing, 26,895 sq.ft. sidewalks, 7,216 cu.yd. excav., 6,539 cu.yd. embankment, etc. F. A. Rhodes, city engr.

**Calif., San Francisco** — City and San Francisco Co., making plans constructing Ocean Shore right-of-way boulevard. To exceed $25,000. M. M. O'Shaughnessy, city engr.

**Calif., San Francisco** — City and San Francisco Co. plan election $10,000,000 bonds, extending city boulevard system, purchase land for extensions, golf course and park improvements, etc. M. M. O'Shaughnessy, city engr.

**Calif., San Rafael**—Marin Co. made plans improving roads in Rd. Dist. 12, 9,289 cu. yd. excav., 18,513 lin.ft. concrete curbing and guttering, 174,485 sq.ft. asphaltic concrete paving 73,180 sq.ft. concrete paving, 245,240 sq.ft. surfacing, etc. H. E. C. Feusier, 84 Madrone Ave., San Anselmo, engr.

**Ont., Niagara Falls** — Plans curbing, guttering and asphalt paving 8,000 sq.yd. 2nd Ave. $30,044. Work will probably be done by day labor. T. S. Scott, city engr.

**Ont., Ottawa** — Bd. Control, soon takes bids asphalt paving Holland and Darling Aves. A. J. Macallum, City Hall, engr.

## BIDS DESIRED

**New Hampshire**—June 30, by State Hy. Comn., Concord, rein.-con. paving 0.85 mi. highway in Salem; graveling 1.25 mi. highway in Wolfeboro; and modified asphalt surfacing 1.07 mi. 2 sections highway in Hampton. F. E. Everett, comr.

**Massachusetts**—June 30, by Dept. Pub. Wks., Boston, bituminous macadam paving 12,865 ft. highway in Groton, $75,000, 3,900 ft. highway in Boylston, $25,000, 4,000 ft. highway in Stockbridge, $25,000, 5,600 ft. highway in Wayland, $35,000, and 1,800 ft. highway in Enfield, all 18 ft. wide. W. F. Williams, comr.

**Mass., Boston** — June 30, by Dept. Pub. Wks., granite block paving Broad St. from State St. to Atlantic Ave. and Hawley St. from Milk to Summer Sts. $25,000. J. A. Rourke comr.

**New York**—July 15, by A. W. Brandt, comr. Highways, Albany, constructing highways in Cayuga, Madison, Oneida, St. Lawrence, Wayne, Wyoming and Steuben Counties; reconstructing highways in Albany Cayuga, Columbia, Essex, Franklin, Onondaga, Suffolk and Steuben Counties; adv. E. N.-R. June 25.

**N. Y., Brooklyn** — July 2, by Park Bd. Dept. Parks, 64th St. and 5th Ave., New York City, improving West Drive, Prospect Park between Plaza and 15th St., here. F. D. Gallatin, pres.

**N. Y., New York**—July 2, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., granite block on concrete repaving East 204th St., North and South side Ramp Roadways; sheet asphalt paving Brook Ave.; sewers in Pelham Parkway N., Wallace and Holland Aves.

**Pennsylvania** — July 7, by Dept. Hys., Harrisburg, bituminous on concrete or rein.-con. paving, about 33 mi. highway in Armstrong, Indiana, Blair, Cambria, Bucks, Butler, Chester, Erie, Huntingdon, Lehigh, Lycoming, Montgomery and Washington Counties. P. D. Wright, secy. Highways; adv. E. N.-R. June 25.

**Pa., Phila.**—July 15, by Delaware River Bridge Joint Comn., Widener Bldg., Contr. 23, grading, paving, etc. along Phila. approach between Delaware Ave. and 4th St., and in adjacent streets, for bridge over Delaware River, connecting Phila., Pa. and Camden, N. J. G. Pinchot, chn.; adv. E. N.-R. June 25.

**Md., Baltimore**—July 1, by Bd. Awards, grading, curbing, concrete paving 6,800 sq.yd. Contr. 292-OA; grading 33,000 cu.yd. Contr. 291-OA and 24,100 cu.yd. Contr. 290-OA. L. G. Turner, 214 East Lexington St., acting chn. Paving Comn.

**Virginia**—July 2, at office State Hy. Comn., Capitol Sq., Richmond, improving roads on Route 31, Project F-379-B, Dinwiddie Co. C. S. Mullen, ch. engr.; adv. E. N.-R. June 25.

**Virginia**—July 2, at office State Hy. Dept., Richmond, improving roads and building bridges on Route 114, Project F-190, Route 11, Project F-344-A, both Wise Co.; and Route 23, Project F-355-A, Giles Co. C. S. Mullen, ch. engr.

**W. Va., Bridgeport** — July 6, by City Clerk, grading and rein.-con., concrete or bituminous macadam surfacing 11,780 sq.yd. 3rd and James Sts., Grand and Orchard Aves. Horner Bros., Clarksburg, engrs. Noted May 21.

**Fla., Deland** — July 1, by Bd. Bond Trustees, curbing, guttering, brick, concrete, or bituminous paving 140,000 sq.yd. various streets; also 3 mi. 12- to 36-in. storm drains and drain wells, with accessories. J. B. McCrary Co., Citizens & Southern Bank Bldg., Atlanta, Ga., engrs.

**Fla., Dundee**—July 7, by J. L. Olson, city clk., paving 55,000 sq.yd. and 15,000 yd. sidewalks on various streets. H. S. Jandson Eng. Co., Elberton, Ga., engrs.

**Fla., Eagle Lake**—July 3, by D. M. Delk, city clk., paving 77,000 sq.yd. various streets. E. C. Camp and associates, Bartow, engrs.

**Fla., Tampa** — July 7, by City Comn., grading, curbing, 2½ in. asphalt blocks on 6 in. concrete paving Buffalo St. from Florida to Main Sts., $26,000; Main St. from Plymouth to Buffalo Sts., $25,000; Main St. from Palm to Park Aves., Palm Ave. from Garcia to Main Sts., South Albany from Watrous to Deckle Sts. and Woodlawn Ave. from Florida to Ola Sts. $26,000. R. D. Martin, City Hall, engr.

**Ala., Birmingham** — Aug. 1, by City Comn., 2 in. asphalt on 5 in. concrete surfacing 8 blocks 35th St., 40 ft., $58,725, 5 blocks 16th Pl. S. W., 16th Way S. W., 17th St., Waco and Fulton Aves., 37 ft., $27,600; and grading, concrete curbing, cement sidewalks, brick and concrete storm sewers, and 2 in. bitulithic on 6 in. concrete surfacing 6 blocks Huntsville Rd., 24 ft. $27,000, concrete surfacing 306 ft. 20th Pl. and 15th Court, 24 ft., $6,250. A. J. Hawkins, city engr. Noted June 18.

**Miss., Greenville**—July 3, by Washington Co. Hy. Comn., grading, etc., 4.5 mi. Trail Lake-Sunflower Rd., 20,000 cu.yd. embankment. E. C. Wild, Leland, ch. engr. O. C. Kulicka, asst. engr. Noted June 4.

**Miss., Jackson** — July 8, by Supervs. Hinds Co. at office Chancery Clerk, clearing, grubbing bridging, etc., 10 mi. Jackson-Hazelhurst Rd., Federal Aid Project 82-A, 18 ft., and 4.6 mi. Canton-Jackson Rd., Federal Aid Project 79-A. H. C. Dietzer, Jackson, engr. Noted Feb. 12.

**Miss., Pittsboro**—July 10, by Bd. Supervs. Calhoun Co. at office of Chancery Clerk, improving 23.288 mi. Grenada-Houston Rd., Federal Aid Project 152-A, 38,779 cu.yd. gravel 1 mi. haul, 280,420 units gravel ½ mi. overhaul, etc.; also Federal Aid Project 152-B, 8,690 cu.yd. gravel 1 mi. haul, 16,675 units gravel ½ mi. overhaul, etc. H. C. Dietzer, Jackson, engr.

**Louisiana**—July 2, by State Hy. Comn., Reymond Bldg., Baton Rouge, constructing 4.17 mi. Algiers-Belle Chasse Highway, State Project 474-B, Orleans and Jefferson

Streets and Roads (Continued)

Parishes; also furnishing gravel or clam shells for surfacing above. W. B. Robert, highway engr.

**Louisiana**—July 9, by State Hy. Dept., Reymond Bldg., Baton Rouge, paving 6.15 mi. State Project 453 A, Haynesville-Shongaloo Highway, Claiborne Parish, and 14.93 mi. State Project 441 A, Lafourche Parish; also 28,000 cu.yd. clam shells, etc., paving latter project. W. B. Robert, highway engr.

**La., Oberlin**—July 9, by Allen Parish Jury, grading and graveling 13,000 cu.yd. various streets in Ward 4, 18 ft. $75,000. C. H. Fenstermaker, Elizabeth, engr.

**O., Columbus**—June 30, by W. H. Duffy, dir. Pub. Serv., grading, laying necessary water services and sewer connections and paving with (a) asphalt (b) brick and (c) concrete, 7,791 ft. Catherine, Charles and Huron Sts., Frederick, Linden, New and Noonday Aves., 24 ft. (a) $126,401 (b) $160,135; 2,641 ft. alleys North Long St. and west Wagner St., Garfield, Linwood, Michigan and Oregon Aves., 20 ft., (b) $20,514 (c) $18,066; 471 ft. Chapel St., 21 ft., (b) $5,539 (c) $5,042; 2,091 ft. Hilltonia Ave., 26 ft., (a) $36,623 (b) $44,317; 7,503 ft. Mound St., 46 ft., (a) $79,086 (b) $97,650; 1,982 ft. alley north Reinhard Ave., 12 and 17.7 ft., (b) $13,197 (c) $11,665; 398 ft. alley west Wesley Ave., 18 and 19 ft., (b) $3,051 (c) $2,705; 799 ft. alley north Woodruff Ave., 15.5 ft., (b) $4,872 (c) $4,294; 442 ft. alley north Whittier St., 15 ft., (b) $2,659 (c) $2,349.

**Michigan**—July 6, by State Hy. Comn., at office Comrs. Shiawassee Co., Corunna, concrete paving 0.568 mi. State Trunk Line Rd. 47-11A. G. C. Dillman, Lansing, state engr.

**Michigan**—June 29, by State Hy. Comn., at office Comrs. Ingham Co., Mason, grading and concrete paving 1.107 mi. State Trunk Line Rd. 14-36C, E-2. G. C. Dillman, Lansing, state engr.

**Mich., Detroit** — June 28, by Dept. Pub. Wks., grading and sheet asphalt paving 976 sq.yd. Bedford Court, 2,135 sq.yd. Bonaparte Ave., 3,785 sq.yd. Fairview Ave., 5,157 sq.yd. Poinsetta Ave., 2,596 sq.yd. Nuernberg Ave., 2,638 sq.yd. Legrande Ave., 2,620 sq.yd. Doremus Ave., 12,723 sq.yd. Dexter Ave., 4,029 sq.yd. Greendale Ave., 4,086 sq. yd. Cecil Ave., 17,084 sq.yd. Wyoming Ave., Sect. 2, and 17,351 sq.yd. Conant Ave. P. A. Fellows, city engr.

**Ill., Astoria** — July 6, by Bd. Local Impvts., grading, curbing and rein.-con. surfacing 21,158 sq.yd. Bway., Paving Dist. 1. W. A. Fuller Co., 1917 Railway Exch. Bldg., St. Louis, Mo., engrs. Noted May 21.

**Wisconsin**—July 2, at Office 5, Batavia Natl. Bank Bldg., La Crosse, improving 4.18 mi. Sparta-La Crosse Rd., Federal Aid Project 397-A, La Crosse Co., 9,135 cu.yd. earth, 1,600 cu.yd. solid rock and 20,003 cu.yd. borrow excav., 660 cu.yd. channel change, 3,670 lin.ft. intercepting ditches, 4,380 lin.ft. macadam concrete curb and gutter, 44,415 sq.yd. macadam paving, etc. J. T. Donaghey, Madison, highway engr.

**Wisconsin** — July 3, at Office 9, Teller Bldg., Lancaster, improving 2.19 mi. Shullsburg-Monroe Rd., Federal Aid Project 374-C, Lafayette Co., 10,317 cu.yd. earth, 86 cu.yd. loose and 752 cu.yd. solid rock excav., 400 lin.ft. intercepting ditch, 515 cu.yd. channel change, 1,738 lb. reinforcing, 4,576 sq.yd. crushed stone surfacing, etc. Bids will be accepted by Option A, entire job, Option B entire job except crushed stone surfacing and Option C crushed stone surfacing only. J. T. Donaghey, Madison, highway engr.

**Ia., Cedar Rapids** — July 6, by L. J. Storey, city clk., resurfacing old tarvia macadam with 2 in. asphaltic concrete or repaving with 2 in. asphaltic concrete on 4 in. concrete, 9,630 sq.yd. Greenwood, Fairview, Ridgeway and Vernon Drives. $25,000. T. F. McCauley, city engr. Noted June 11.

**Minn., Faribault** — July 15, by F. M. Kaisereatt, aud. Rice Co., (S. A. R. means State Aid Road), grading, etc., 69,256 cu.yd. Job 2503, S. A. R. 64 and parts of S. A. Rds. 51 and 26, $30,259; 119,335 cu.yd. Job 2504, S. A. R. 3, Divisions A and B, $51,-483; 29,290 cu.yd. Job 2417 S. A. R. 54, $18,566. J. C. McElherne, Faribault, engr.

**Minn., Minneapolis** — June 29, by A. P. Erickson, aud. Hennepin Co., grading, gravel surfacing, etc. 13,800 cu.yd. Job 25-59, State Aid Road 17, Hennepin Co. $50,000. J. W. Shaffer, co. surv.

**Minn., St. Paul**—July 6, by C. J. Ries, aud. Ramsey Co., grading and paving ¾ mi. Ft. Snelling-Mendota bridge connection. $30,000. P. N. Coates, 900 Guardian Life Bldg., engr.

**Minn., Worthington**—July 14, by C. J. Kall, aud. Nobles Co., gravel surfacing 6 mi. Job 2506, State Rd. 15; grading, etc., 14,747 cu.yd. Job 2507, State Rd. 16, $26,-000. E. Keeler, Worthington, engr. Noted Apr. 30.

**South Dakota** — June 30, by State Hy. Comn., Pierre, **(F. A. P. means Federal Aid Project)**, graveling, etc., 9.42 mi. F. A. P. 169, Pennington Co.; 8.51 mi. F. A. P. 146A, 3.77 mi. F. A. P. 146B and 180B, and 9.45 mi. F. A P. 180C, Corson Co.; 10 mi. highway from Beresford to Centerville, etc. T Soleglad, acting highway engr.

**North Dakota** — July 2, by State Hy. Comn., and Comrs. Ward Co., Court House, Minot, grading and graveling, etc., 0.543 mi. Highway 8, east of Delacs, Federal Aid Project 83C.

**North Dakota** — July 7, by State Hy. Comn., and Comrs. Adams Co., Court House, Hettinger, grading, etc., 4.999 mi. road, from Haynes east and south, Federal Aid Project 243 B.

**North Dakota** — July 8, by State Hy. Comn., and Comrs. Burke Co., Court House, Bowbells, graveling, etc., 13.181 mi. road between Flaxton and Bowbells, Federal Aid Project 76.

**North Dakota** — July 8, by State Hy. Comn. and Comrs., Burke Co., at Court House, Bowbells, grading and graveling 0.503 mi. road from Columbus, south, Federal Aid Project 1005.

**North Dakota** — July 10, by State Hy. Comn., and Comrs. Sheridan Co., at Court House, McClusky, grading, etc., 7.075 mi. road, east and west through McClusky, Federal Aid Project 218 C.

**Wyoming**—June 30, by State Hy. Comn., Cheyenne, grading 11.4 mi. Sheridan-Billings Rd., Federal Aid Project 179-A, Sheridan Co., $100,000, C. R. Wood, Sheridan, highway engr.; grading, etc., 7.57 mi. Wheatland-Douglas Rd., Federal Aid Project 165-A, Platte Co., $34,000, Z. E. Sevison, Cheyenne, engr.; grading and bridging 4 mi. Roverton-Dubois Rd., Federal Aid Project 159-B, Fremont Co., $38,000, 8.44 mi. Saratoga-Encampment Rd., Federal Aid Project 174-A, Carbon Co., $86,301; grading, bridging, surfacing 9.19 mi. Sundance-Beulah Rd., Federal Aid Project 25-A, Crook Co., $80,000, W. D. Keeney, Upton, engr.; grading, etc., 10 mi. Douglas-Casper Rd., Federal Aid Project 166-A, Converse Co., $39,000, C. H. Bowman, Casper, engr.

**Mo., St. Louis** — July 14, by Bd. Pub. Serv., 208 City Hall, granite curbing, asphalt paving, etc., 2,615 sq.yd. Magnolia St. $12,720, 3,240 sq.yd. Mississippi St. $29,-600, 1,855 sq.yd. Missouri St. $11,400, 3,295 sq.yd. Waldemar St. $17,300, 1,950 sq.yd. Alcott St. $8,320; granite curbing, granite block paving, etc., 4,855 sq.yd. Mississippi St., $42,000; granite curbing, Willite paving, etc., 25,500 sq.yd. Magnolia Ave. $175,-000, and 12,180 sq.yd. Euclid Ave. $71,000; granite curbing, Warrenite paving, etc., 2,965 sq.yd. Eller Ave. $23,520, 5,275 sq.yd. Milentz St. $24,000, 820 sq.yd. Emerson St., $14,120; granite curbing, asphaltic concrete paving, etc., 3,110 sq.yd. Wise Ave., $16,400. W. W. Horner, 300 City Hall, engr.

**Arkansas**—June 29, by State Hy. Dept., Little Rock, grading, bridging, gravel surfacing, etc. 12.9 mi. Magnolia-Village Rd., Federal Aid Project 232-A, Columbia Co.; 2.1 mi. Kokomo-St. Francis Co. Line Rd., Federal Aid Project 183-D, Rd. Dist. 4, Lee Co.; 5.5 mi. Bay Road-St. Francis Rd. extension, Federal Aid Project 179-B, Poinsett Co.; 5.75 mi. Foreman-Lewis Ferry Rd., Federal Aid Project 203-A, Little River Co., all 18 ft. wide. R. C. Limerick, Little Rock, highway engr.

**Tex., Port Arthur** — July 9, by J. P. Logan, mayor, grading, curbing, guttering and asphalt, rock asphalt or brick paving 87,000 sq.yds. various streets. $200,000. Nagle, Witt & Rollins, 1024 Keystone Bldg. Houston, engrs. Noted June 4.

**Tex., Sequin** — June 29, by State Hy. Comn., Austin, 1½ in. triple inverted penetration bituminous topping, 98,539 sq.yd. State Highway 3, Federal Aid Project 35-A-C, $170,000; graveling and 1 in. rock asphalt or 1½ in. triple bituminous surfacing 5.13 mi. State Highway 3, Federal Aid Project 35-B, $90,000. F. V. Lanham, chn. L. Taylor, Sequin, engr.

**Tex., Wortham**—July 6, by City Clerk, grading, curbing and paving 15,000 sq.yd. various streets. $50,000. J. E. Johnson, Teague, engr. Noted June 4.

**Colo., Denver**—June 30, by Dept. Impvts. & Parks, concrete paving 12 blocks Alley Paving Dist. 130, $33,213, 12 blocks Dist. 131, $21,233; 12 blocks Dist. 132, $29,405; and 12 blocks Dist. 133, $25,007. A. K. Vickery, City Hall, engr.

**Washington** — July 14, by State Hy. Comn., Olympia, crushed rock or gravel surfacing 15 mi. Elbe-Morton Rd., State Rd. 5, Lewis Co., and 13 mi. Davenport-Harrington Rd., State Rd. 7, Lincoln Co. J. W. Hoover, Olympia, highway engr.

**Calif., San Diego** — July 6, at office of A. H. Wright, city clk., grading, curbing, guttering, sidewalks, and 1½ in. asphaltic concrete on 5 in. concrete paving, 310,514 sq.ft. National Ave. between 31st and 41st Sts. F. A. Rhodes, city engr. Noted June 4.

**Ont., Sandwich**—June 26, by W. P. Coyle, clk. Essex Co., rein.-con. paving 1 mi. road east of Belle River, 26 ft. $50,000. Newman & Armstrong, David Blk., Windsor, engrs.

**British Columbia** — June 30, by Minister Dept. Pub. Wks., Victoria, clearing and grading 6 mi. new highway from Kalso to Nelson. $100,000. P. Philip, ch. engr.

## BIDS RECEIVED

**Massachusetts**—Dept. Pub. Wks., Boston, bituminous macadam surfacing highway in Norwell, from O. R. Mann, South Hanover, $2,730, and 6,948 ft. highway in Hinsdale, from J. McCormick, 319 Taunton Ave., Providence, R. I., $66,679; bituminous concrete surfacing 22,935 ft. highway in Chatham and Harwich, from M. F. Roach, 35 Spring St., East Bridgewater, $84,452; bridge and approaches on 1,250 ft. highway in West Springfield, from Hoyt Constr. Co., 85 Dartmouth St., Holyoke, $76,144. Noted June 18.

**N. Y., Brooklyn**—J. A. Guider, boro pres., Boro Hall, June 17 from Sicilian Asphalt Paving Co., 41 Park Row, New York City, restoring and repaving when and where directed $25,000, asphalt repaving Atlantic and Williams Aves. $14,490, Harrison Ave. $63,810; from Cranford Co., 52 9th St., asphalt repaving Alabama Ave. $12,353, Greene Ave. $24,787, and Lewis Ave. $45,-757. Noted June 11.

**N. Y., St. George** — J. A. Lynch, pres. Richmond Boro, Boro Hall, June 17, concrete repaving Hylan Blvd. and Court Pl., from Richmond Paving Co., 48 Hylan Blvd., Rosebank, $78,609. Noted June 11.

**New Jersey**—Bd. Freeholders Mercer Co. (Trenton), June 9, concrete paving 5,300 lin.ft. Zenker Rd. in Trenton Junction, from Celentano & Wendland, 509 Bridge St., Trenton, $56,219; bituminous concrete on stone paving 2,250 ft. Parkway and Kelsey Ave., in Trenton, from Union Paving Co., 30th and Locust Sts., Phila., Pa., $19,778.

**N. J., Belvidere**—Warren Co., paving 2 mi. Phillipsburg-Belvidere Rd., through here, from W. Eisenberg, Smith-Austermuhl Bldg., Camden, $118,073.

**N. J., Hopewell**—Freeholders Mercer Co. (Trenton), June 16, concrete paving 26,260 sq.yd. Broad St., here, from Gallena-Poole, 51 Prospect St., Trenton, $104,672. Noted June 11.

**N. J., Morristown**—Morris Co., concrete paving 2 mi. road in Passaic Twp., from Grey Constr. Co., Franklin St., $86,432.

**Pa., Phila.** — Delaware River Bridge Joint Comn., Widener Bldg., concrete slabs and paving roadway and footwalks of bridge over Delaware River connecting Phila., Pa., and Camden, N. J., Contr. 21-B, from F. J. Boas, 201 North Broad St., $766,212. Noted May 21.

**Md., Baltimore**—Bd. Awards, grading, curbing and sheet asphalt paving 15,400 sq.yd. Contr. 280 OC, from Amer. Paving Co., Montebello Ave., $74,852. Noted June 11.

**Louisiana** — State Hy. Dept., Reymond Bldg., Baton Rouge, June 2, graveling 6.91 State Project 414-B, Jonesboro-Highway, Jackson Parish, from Harvey Constr. Co., Winnfield, $49,394.

**O., Cincinnati**—Director Pub. Serv., May 20, improving 1,650 ft. Hamilton Ave. from Chase to Bruce Sts., 100 sq.yd. vitr. brick, 7,200 sq.yd. granite block, 60 sq.yd. asphalt, 1,600 cu.yd. concrete, 3,250 lin.ft. granite curbing, 2,000 sq.ft. cement sidewalks, etc., from A. J. Brehm, 876 Hutchins Ave., $64,-855. Engrs. est. $69,645.

**Ill., Galesburg**—Grading, curbing, paving, etc., 2 blocks Duffield Ave. and sewers in 6th Ave., from H. H. Gunther, 959 East Losey St., $14,817 and $765 respectively, engrs. est. $14,967 and $874 respectively; grading, curbing and paving 2 blocks North Whitesboro St., and sewer in Academy St., from Graham-King Constr. Co., 550 South Cedar St., $12,760 and $2,285 respectively, engrs. est. $12,948 and $2,528 respectively.

**Ill., Pekin**—Bd. Local Impvts., June 10, grading, curbing, paving, etc., various streets in Highland Ave. Paving Dist., from Jansen & Schaefer, Pekin, $68,973. Engrs. est. $84,569. Noted June 4.

**Wis., Wauwatosa**—Bd. Pub. Wks., June 12, improving East and West Milwaukee Aves., 55,000 cu.yd. grading, from Bartel Mourer Co., 958 8th Ave., Milwaukee, at $0.62 per cu.yd.; 37,250 sq.yd. rein.-con. paving, from Jacobus & Winding Constr. Co., 1 State St., $2.08 per sq.yd. Noted June 4.

**Ia., Atlantic**—See "Bridges."

**Kan., Ft. Scott** — Bourbon Co., June 2, 128,000 gal. bitumen for single surface treating 28 mi. various roads, from Hogan Constr. Co., oil asphalt $15,687, refined tar $20,475.

Streets and Roads (Continued)

**Tex., Cameron** — Milam Co., June 5, grading, bridging and gravel surfacing 7.6 mi. State Highway 36, Federal Aid Project 359, 18 ft., from Evans & Greathouse, 500 West 15th St., Austin, $96,000. Noted May 21.

**Colorado**—State Hy. Dept., Denver, **(e. e. means engrs. est.)**, grading 19.265 mi. Federal Aid 286B, Weld Co., from J. Collier, 63 South Logan St., Denver, $87,249 e. e. $114,633, 1.087 mi. Federal Aid 245B, Grand Co., from Pioneer Constr. Co., 203 Denham Bldg., Denver, $61,071 e. e. $98,984; gravel-ing 2.216 mi. Federal Aid 267B, Las Animas Co., from Central Constr. Co., La-Veta, $22,858 e. e. $27,257.

**Wash., Longview**—City Council, June 9, improving L. I. D. 7, Highlands Addition 3, 38 acres clearing and grubbing, 10,332 cu.yd. sub-grading, 71,152 cu.yd. grading, 27,217 cu.yd. gravel in place, etc., from Goetz & Brennan, Seaboard Bldg., Seattle, $118,774. Engrs. est. $109,823.

**California** — State Hy. Comn., Sacramento, June 8, crushed gravel or broken stone surfacing 10 mi. road between point 6 mi. east of Los Banos and San Joaquin River, Merced Co., from Kaiser Paving Co., Amer. Bank Bldg., Oakland, $23,368; concrete paving 1 mi. road through town of Corning, Tehama Co., from E. A. Burns, Stockton $36,922; concrete paving 7.6 mi. and gravel or broken stone surfacing 1.2 mi. road between Healdsburg and Mark West Springs, Sonoma Co., from Galbraith & Janes, P. O. Box 539, Napa, using corrugated pipe, $277,516, using concrete culverts, $278,466; crushed stone or gravel surfacing 11.6 mi. road between Tahoe City and Nevada State line, Placer Co., from Bishop & Brooks, 201 Hagelstein Bldg., Sacramento, $23,912.

**Calif., El Cerrito**—From A. J. Crocker, 58 2nd St., San Francisco, improving Liberty, Elm, Richmond, Everett Sts., etc., 421,000 ft. 1½ in. Warrenite on 2½ in. asphaltic concrete paving at $0.239 per ft., 123,500 ft. 1½ in. Warrenite on 3 in. asphaltic concrete $0.249, 38,500 ft. 1½ in. Warrenite on 3½ in asphaltic concrete $0.269, 583,000 sq.ft. grading $0.03, total $207,964.

**Calif., Los Angeles** — Los Angeles Co., curbing, guttering and paving 16,478 ft. Whittier Blvd., from Kuhn Bros., 408 Center St., Manhattan Beach, $119,880. Engrs. est. $163,190.

**Calif., Redwood City**—San Mateo Co. oil and screenings on 3 in. rock macadam re-surfacing 65,000 sq.yd. road from San Gregoria to Pescadero, from Guerin Bros., 2940 San Jose Ave., San Francisco, $49,800. Noted May 28.

### CONTRACTS AWARDED

**Mass., Boston**—Dept. Pub. Wks., sheet asphalt or bitulithic paving Riverway Rds., to J. C. Coleman & Sons Co., 1620 Tremont St., Roxbury, $60,610. Noted June 11.

**Mass., Boston**—Dept. Pub. Wks., sheet asphalt or bitulithic paving Johnson Rd. and Houston St., West Roxbury, Leston St., Dorchester, Ashley, Ellsworth, Brandeen and Metcalf Sts., in East Boston, to H. F. Malley, 174 Hillside Ave., Roxbury, $27,268. Noted June 11.

**Mass., Boston** — Dept. Pub. Wks., bitulithic paving Columbia Rd. from Uphams Corner to Blue Hill Ave., Dorchester, to Warren Bros. Co., 9 Cambridge St., $66,968. Noted June 22.

**Rhode Island**—State Bd. Pub. Rds., State House, Providence, plans reconstructing highway from Fall River to Taunton, sec-tion of Newport to Boston Route, in Bris-tol. $300,000. A. L. Atwood, chn.

**N. Y., New York** — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., to M. Del Balso, 660 East 221st St., grading, curbing and sidewalks, etc. on Furman Ave. $14,594; to Brusstar Constr. Co., Harlem River and 150th St., grading and bituminous concrete paving West 180th St. $18,225, and Giles Pl. $23,380; to Interboro Asphalt Co., 2306 Creston Ave., sheet asphalt paving Davidson Ave. $37,743, grading, curbing and sidewalks, etc. Montgomery Ave. $88,-937, to Gaffney Constr. Co., 50 East 42nd St. Cruger Ave. $18,380. Noted June 11.

**N. Y., Niagara Falls** — Asphalt block paving 9,776 sq.yd. Cedar Ave. from Elm to Portage Aves. and from Main to 3rd Sts., to Read-Coddington Eng. Co., 238 Portage Rd., approximately $54,000.

**N. Y., St. George** — J. A. Lynch, pres. Richmond Boro, Boro Hall, concrete paving Victory Blvd., to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $16,630.

**New Jersey**—Bd. Freeholders Hunterdon Co., at office State Hy. Dept., Trenton, rein.-con. paving 51,915 sq.yd. Ringoes-Flemington Rd., to Korp & Korp, Phillips-burg, $251,910. Noted June 4.

**N. J., Butler**—Morris Co. (Morristown) concrete paving 6,000 ft. Main St., here, to Weldon Co., Savage Ave., Westfield, $42,757.

**N. J., Camden**—State Hy. Dept., Trenton, entrance road Sect. 3, Delaware River Bridge approach, here, also 2 small 1 span bridges, 25,436 yd. excav. and 208,606 cu.yd. borrow, to M. Staub-Kolyn Constr. Co., Commonwealth Bldg., Trenton, $413,-391.

**Pa., Millvale** — Millvale Boro repaving Lincoln Ave., to M. O. Herron, Millvale, $29,099. Noted Mar. 2.

**Pa., Phila.** — Delaware River Bridge Joint Comn., Widener Bldg., final section of plaza of Phila. approach, incl. subway station for bridge trolleys, 5th and 6th Sts., Contr. 22, to Acchione & Canuso Paving Co., 804 South 12th St., $930,314. Noted May 21.

**Pa., Phila.** — Dept. Wharves, Docks & Ferries, asphalt paving 14,550 sq.yd. and granite block paving 5,000 sq.yd. McKean Street Pier 78 South, Moyamensing Group, to Frederick Snare Corp., 1524 Chestnut St., $84,749.

**Pa., Wilkes-Barre**—School Dist., asphalt tile sidewalks, and driveways, curbing, stone work, grading, etc., at G. A. R. Me-morial Junior High School, to Hastings Pavement Co., 24 Broad St., New York City, $30,275.

**Maryland** — State Roads Comn., Balti-more, concrete paving 2 mi. Contr. HO-45, Howard Co., to Ward & O'Connell, New Amsterdam Bldg., Baltimore, $67,575; sheet asphalt paving 0.39 mi. Contr. BC-12-C Baltimore Co., to Amer. Paving & Contr. Co., Montebello Ave., Baltimore, $29,691, 0.43 mi. Contr. BC-54, Baltimore Co., to P. Flanigan & Sons, Harford Rd. and Bal-timore & Ohio R.R., Baltimore, $65,922; concrete shoulders on 1.64 mi. Contr. D-6A, Dorchester Co., to J. K. Flick, Sudlersville, $8,083, 8.5 mi. Contr. AB-1A, Anne Arundel Co., to P. Redding & Son, 2 East Lexington St., Baltimore, $85,749, 8.2 mi. Contr. WO-5A, Worcester Co., to Phillips & Neal, Hur-lock, $37,812, 4.75 mi. Contr. P-12A, Prince George's Co., and 11.25 mi. Contr. C1-21A, Carroll Co., to Thomas, Bennett & Hunter, Westminster, $49,896 and $112,320 respec-tively. Grand total $475,048. Noted May 21.

**Md., Baltimore** — Bd. Awards, concrete paving 9,000 sq.yd. Contr. 287 OA, to F. D. Carrozza, Garrett Bldg., $25,009; 15,530 sq.yd. Contr. 286 OANA, to P. Flanigan & Sons, Harford Rd. and Baltimore and Ohio R.R., $75,158. Noted June 18.

**W. Va., Moundsville**—Asphalt surfacing 8th St. and 6 other streets, to Federal As-phalt Co., Main and D Sts., Hamilton, O., $42,983. Noted May 28.

**W. Va., Wayne**—Wayne Co., grading 6 mi. and concrete surfacing 1.2 mi. Whites Creek and Kellogg-Bobs Branch Rds., to Hatfield Constr. Co., 418½ 10th St., Hunt-ington, W. Va., $69,834.

**North Carolina**—State Hy. Comn., Ra-leigh, grading, and sand-asphalt paving 5 mi. highway, Project 276, Pender Co., to Hudson & Scruggs, Wilmington, $107,035.

**Fla., Tampa**—City, widening, repaving and paving portions of Platt, Azeele, and Nebraska Sts., to W. L. Harwell, Tampa, $30,064. Engrs. est. $38,000.

**Louisiana** — State Hy. Dept., Reymond Bldg., Baton Rouge, graveling 10.54 mi. road from Chatham to Caldwell Parish Line, State Project 469, Jackson Parish, to L. M. Wimberly Constr. Co., Arcadia, $83,-628. Noted June 25.

**Louisiana**—State Hy. Dept., Reymond Bldg., Baton Rouge, graveling 6.02 mi. Jonesboro-Bienville Highway, Jackson Par-ish, to F. D. Harvey & Co., Winnfield, $55,003.

**La., Baton Rouge**—See "Buildings—Com-mercial."

**La., Shreveport**—To E. S. Girault & Co., Shreveport, 2.5 mi. concrete sidewalk in Glenwood Park, $0.20 per ft.

**Ala., Tuscumbia**—Curbing, guttering and sidewalks on 15 mi. various streets, to Muscle Shoals Constr. Co., Tuscumbia, $104,600. Engrs. est. $105,000. Noted Mar. 19.

**Miss., Hattiesburg**—Forrest Co., 2½ in. vitr. brick on 5 in. concrete surfacing, etc., 18,000 sq.yd. Road Impvt. Dist. 1, to E. A. Finch, 805 Elizabeth Ave.; grading, curbing and Warrenite surfacing, etc., 119,425 sq.yd. roads, to Myers Constr. Co., Hattiesburg. Engrs. est. $500,000 incl. $100,000 federal aid. Noted June 4.

**Miss., Louisville**—Grading, curbing and Willite surfacing 25,000 sq.yd. various streets, to Hogan Constr. Co., 381 Southern Trust Bldg., Little Rock, Ark., $75,000. Noted May 28.

**Miss., Meridian**—To Wright Constr. Co., Meridian, 1½ in. sheet asphalt on 5 in. con-crete surfacing 39,101 sq.yd. various streets at $1.84 per sq.yd.; to Dunn Constr. Co., Chamber Commerce Bldg., Birmingham, Ala., 2 in. Warrenite on 5 in. concrete sur-facing 33,800 sq.yd. various streets at $2,2[illegible] and 2 in. asphaltic concrete surfacing 10,[illegible]000 sq.yd. various streets at $1.92; to Meyers Constr. Co., Meridian, 15,678 ft. 6 to 24-in. vitr. clay sewers, etc., in various streets at scale price; to A. P. Pool & Son, Meridian, 37,500 ft. concrete curbing and 5,600 ft. concrete guttering, etc. Noted Apr. 30.

**Kentucky**—State Hy. Dept., Frankfort, to R. B. Tyler Co., 114 South 4th St., Louis-ville, oil surfacing 13.9 mi. Project 20-H, 21-G and 50-D, Bourbon Co. $8,508, 10.68 mi. Projects 96-A and 25-C, Boyle Co. $7,267, 14 mi. Projects 50-B and C, Clark Co. $10,676, 15.52 mi. Projects 29-A and B, Estill and Madison Counties $9,163, 11.1 mi. Project 25-F, Garrard Co. $7,092, 7.417 mi. Projects 8-B and 11-M, Hardin Co. $6,686, 21 mi. Projects 21-C, D and E, Har-rison and Pendleton Counties $11,473, 4 mi. Project 11-J, Hart Co. $2,814, 13.1 mi. Projects 23-B and C, Jessamine Co. $8,756, 9.313 mi. Project 5-N-2, Laurel Co. $7,626, 3.14 mi. Project 32-C, Montgomery Co. $1,915, 2.2 mi. Project 61-A, Nicholas Co. $1,391, 8.48 mi. Project 11-G-1, Warren Co. $13,433, 6.3 mi. Project 20-B, Woodford Co. $5,305, tar surfacing 3 mi. Project 97-A, Garrard Co. $3,943, 10.5 mi. Projects 46-B and C, Henry Co. $5,359, 13.1 mi. Projects 23-B and C, Jessamine Co. $4,611, 2 mi. Project 25-B, Marion Co. $2,716, 5.3 mi. Projects 47-A and B, Nelson and Washing-ton Counties $3,358, 14.7 mi. Project 26-C, Woodford Co., $8,517; to F. G. Breslin, 3rd and Market Sts., Louisville, oil surfacing 10.5 mi. Projects 64-A, 49-B and 59-B, Gallatin and Owen Counties, $13,649; to Southern Oil & Tar Co., Clay and Fulton Sts., Louisville, tar surfacing 2.501 mi. Project 5-T, Bell Co. $1,363, 18.87 mi. Proj-ects 5-S and 38-A, Bell Co. $14,550, 6.447 mi. Project 46-K, Hardin Co. $8,551, 12.99 mi. Project 5-O, Laurel Co. $16,494, 4 mi. Project 22-G, Lincoln Co. $5,273, 10.5 mi. Project 44-A, Nelson Co. $6,157, 8 mi. Proj-ect 19-D, Owen Co. $8,502, 12 mi. Project 22-H, Pulaski Co. $7,111, 7.31 mi. Project 35-A, Whitley Co. $6,397, to Eaton Oil Wks., Covington, 4.166 mi. Project 6-B-1, Boyd Co. $3,202, and 1.1 mi. Project 47-R-1, Carter Co., $849; to Costello Bros., Henson Bldg., Knoxville, Tenn., grading, etc., 5.747 mi. Projects 130-B, C and D, Fulton Co., $54,590. Grand total $272,114. Noted May 14.

**Kentucky** — State Hy. Dept., Frankfort, grading, etc., 6.997 mi. Bardwell-Clinton Rd., 26 and 30 ft., Federal Aid Project 131-B and C, Carlisle Co., and 6.087 mi. Ful-ton-Hickman Rd., 26 and 30 ft., Federal Aid Project 130-B, C and D, Fulton Co., to Costello Bros. Co., Hanson Bldg., Knoxville, Tenn., $62,622 and $54,590 respectively. Noted May 21.

**O., Akron**—Summit Co., grading, curbing and paving 0.68 mi. Kenmore-Magadore Rd., 3,060 sq.yd. vitr. brick and 6,160 sq.yd. concrete, to A. E. Guilford Constr. Co., Metropolitan Bldg., $58,361. Engrs. est. $68,000. Noted June 4.

**O., Brooklyn Heights** (mail Independ-ence)—Asphaltic concrete paving 6,500 yd. Broadale Ave., to Baldwin Bros., 4500 Euclid Ave., Cleveland, $37,612. Noted June 18.

**O., Cleveland**—City, to W. E. McHugh, West 73rd St. and Wheeling & Lake Erie R.R. tracks, improving Woburn St. $7,788, Brooklyn St. $8,627, Bucyrus St. $7,738, work involves 3,670 sq.yd. vitr. brick, 2,350 lin.ft. stone curbing, 2,560 lin.ft. 4 in. drain tile guttering, 2,590 cu.yd. earth excav., etc.; to Enterprise Paving & Constr. Co., 8444 Bway., East 40th St. $16,662, East 59th St. $19,625, East 138th St. $6,838, Dell Ave. $16,727, 12,690 sq.yd. sheet as-phalt, 3,980 cu.yd. earth excav., etc.; to Highway Constr. Co., 903 Lorain Co., Bank Bldg., Elyria, Coath Ave. $26,989, Dart-mouth Ave. $29,734, Gay Ave. $10,648, Melbourne Ave. $25,986, 17,090 sq.yd. as-phaltic concrete, 11,420 lin.ft. stone curbing, 12,060 lin.ft. 4 in. drain tile guttering, 8,690 cu.yd. earth excav., etc.; to Fischer & Williams, Lorain Rd., Chatfield Ave. $48,-103, to Roehl Bros., 7002 Denison Ave., Seymour Ave. $14,368, to Gould & May-bach, 16311 Saranec Rd., Waldo Ave. $7,765, work involves 10,390 sq.yd. vitr. brick, 1,265 sq.yd. asphaltic concrete, 7,425 lin.ft. stone curbing, 7,980 lin.ft. 4 in. drain tile gutter, 8,750 cu.yd. sidewalks, etc. Grand total $247,598. Noted May 21.

**O., Cincinnati** — Hamilton Co., **(e. e. means engrs. est.)** grading and bituminous macadam paving 14,200 sq.yd. Enyart Rd., to O. E. Radabaugh, Hazelwood, $23,182, e. e. $26,723; 31,200 sq.yd. Given Rd. to

Streets and Roads (Continued)

J. L. Radabaugh, Montgomery Park, Montgomery, $54,050 e. e. $57,787; 165,000 sq.yd. Brower Rd., to J. S. Slone, 2312 Mound Ave., Norwood, $30,288 e. e. $30,468; and 12,000 sq.yd. Rapid Run Park, to J. S. Nickoson, Sayler Park Station, Cincinnati, $27,373, e. e. $27,994. Grand total $134,893. Noted June 18.

**O., Maple Heights** (mail Cleveland)—Improving Friend Ave., 4,365 lin.ft. each curbing and guttering 49,200 sq.ft. bituminous concrete paving, to A. M. Pejsa Paving Co., 3161 Derbyshire Rd., Cleveland, $26,225.

**Michigan**—State Hy. Dept., at office Comrs. St. Joseph Co., Centreville, will pave with bituminous concrete 7.741 mi. State Trunk Line Rd. 13-69, by day labor. G. C. Dillman, Lansing, ch. engr. Noted June 4.

**Michigan**—State Hy. Dept., at office Comrs. Kalamazoo Co., Kalamazoo, will pave with bituminous concrete 1,512 mi. Trunk Line Rd. 13-69, by day labor. G. C. Dillman, Lansing, ch. engr. Noted June 4.

**Mich., Detroit**—To R. J. Powelson & Co., 6415 Iroquois Ave., one course concrete paving 369 sq.yd. Alley 2270 $1,177; to Bishop & Weir, 1305 Lafayette Bldg., 2,470 sq.yd. Alley 2274 $5,739, 2,505 sq.yd. Alley 2276 $5,872, 1,635 sq.yd. Alley 2277 $3,792; to Otis Cement Constr. Co., 806 Hammond Bldg., 2,055 sq.yd. Alley 2275 $4,968, 1,250 sq.yd. Alley 2279 $3,011, 710 sq.yd. Alley 2280 $1,766, 3,100 sq.yd. Alley 2281 $852, 1,075 sq.yd. Alley 2284 $2,876; to C. W. Shephard Co., 213 State St., 1,330 sq.yd. Alley 2278 $3,167, 1,610 sq.yd. Alley 2282 $4,158, 1,285 sq.yd. Alley 2283 $3,046, 710 sq.yd. Alley 2285 $1,733. Grand total $42,157.

**Mich., Pontiac** — Asphalt paving 9,300 sq.yd. various streets, to R. D. Baker Constr. Co., 1454 Penobscot Bldg., Detroit, $47,095.

**Mich., Wyandotte** — Curbing, and one course concrete paving 12,000 sq.yd. Vine, Elm, 2nd, 1st, 6th and Orchard Sts., to Bishop & Weir, 1305 Lafayette Bldg., Detroit, $43,000.

**Illinois**—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete surfacing Route 5, Sect. 15-X, Winnebago Co., to Verhey Constr. Co., Urbana, $8,958; Route 22, Sect. 11, Cook Co., to Chicago Heights Coal Co., Chicago Heights, $133,533; and Route 12, Sect. 1, Lawrence Co., to French Constr. Co., Fairfield, $121,705. Noted Apr. 2.

**Ill., Belleville** — Grading, curbing and paving McClintock Ave., to Hoeffken Bros., 222 West B St., Belleville, $69,894. Engrs. est. $81,000. Noted June 18.

**Wis., Milwaukee**—Bd. Pub. Wks., asphalt resurfacing Wright and 44th Sts., to Badger Constr. Co., 97 Wisconsin St., $4,336 and $6,308 respectively; vibrolithic concrete paving 56th St. and concrete paving 1 alley, to A. E. Retziaff, 868 Island Ave., $6,070 and $2,079 respectively; sheet asphalt paving Graham St., to White Constr. Co., 68 Wisconsin St., $2,436; grading Lake St., to E. Radtke, 1405 Louis Ave., $2,432; concrete paving 1 alley each, to Bodemann Constr. Co., 691 48th St. $1,281, to Parkinson Constr. Co., 322 27th St. $1,534, to C. H. Slattery, 584 71st Ave. $4,242, to G. W. Hirth, 1309 7th St. $1,251, 2 alleys, to F. W. Blodgett, 521 Newton Ave., $7,887. Grand total $43,067. Noted June 11.

**Ia., Adel** — Dallas Co., gravel surfacing 7.5 mi. Primary Project 250, also 2,875 cu. yd. gravel and 22,125 units overhaul Primary Maintenance 8, to Moody & Foster, Perry, $8,954 and $1,790 respectively; 3 mi. Dist. 46, to H. R. Maudlin, Nevada, $3,788; 6 mi. Dist. 47 and 2.5 mi. in Grant Twp., to Kaiser Gravel Co., Pocahontas, $5,021 and $1,447 respectively; 11,250 cu. yd. Dist. 48, and 3,000 yd. Dist. 49, to W. L. Joy & Son, Grand Junction, $5,985 and $1,444 respectively. Grand total $28,429.

**Minn., Elbow Lake**—C. M. Nelson, aud. Grant Co., improving State Rd. 14, Job 2501, 105,758 cu.yd. excav., 187,325 cu.yd. overhaul, etc., to Studer & Manion, Excelsioir, $24,365; gravel surfacing State Rd. 9, Job 2502, to Cosh Bros., Elbow Lake, $6,849, also 9 mi. State Rd. 11, Job 2503, to F. Lange, New Ulm, $7,124. Grand total $38,338. Noted May 28.

**Kan., Ft. Scott** — Bourbon Co., 126,000 gal. 1 course bitumen, for surface treating 28 mi. various streets, to Hogan Constr. Co., 381 Southern Trust Bldg., Little Rock, oil asphalt $15,687.

**Neb., Alma**—E. E. McKee, city clk., curbing, guttering and 6 in. rein.-con. paving 19,000 yd. streets in Dist. 1, to Yant Constr. Co., Omaha Natl. Bank Bldg., Omaha, at $1.97 per sq.yd. Engrs. est. $65,000. Noted June 11.

## IMPOUNDING RESERVOIR—ASHLAND, PA.

Bids were opened by Borough, Apr. 30, for building impounding reservoir (A) Pottsville Construction Co., Pottsville, Pa. (awarded contract); (B) Briggs Construction Co., Providence, R. I.; (C) McLean Construction Co., Baltimore, Md. The unit bids are as follows:

| | A | B | C |
|---|---|---|---|
| 6 acres clearing and grubbing | $500.00 | $250.00 | $605.00 |
| 2,000 cu.yd. stripping | 1.50 | 1.30 | 2.20 |
| 950 cu.yd. earth excavation, Class A | 1.50 | 3.50 | 1.90 |
| 30,000 cu.yd. earth excavation, Class B | .85 | 1.00 | 1.00 |
| 1,000 cu.yd. rock excavation, Class A | 4.00 | 4.50 | 6.60 |
| 12,000 cu.yd. rock excavation, Class B | 1.75 | 3.00 | 1.40 |
| 1,600 lin.ft. drilling grout holes | 3.00 | 2.50 | 2.20 |
| 800 bags cement grouting | 1.25 | 1.40 | 1.93 |
| 82,000 cu.yd. rolled embankment | .95 | .75 | 1.10 |
| 5,000 sq.yd. seeding | .10 | .06 | .22 |
| 370 cu.yd. concrete, Class A | 25.00 | 24.00 | 25.30 |
| 636 cu.yd. concrete, Class B | 22.00 | 30.00 | 22.00 |
| 260 cu.yd. concrete, Class C | 22.00 | 20.00 | 21.50 |
| 254 cu.yd. concrete, Class D | 21.00 | 22.00 | 18.70 |
| 2,800 cu.yd. concrete, Class E | 15.00 | 17.00 | 15.00 |
| 255 cu.yd. concrete, Class F | 20.00 | 20.00 | 16.50 |
| 36,000 lb. steel reinforcement | .08 | .05 | .08 |
| 50 cu.yd. rubble masonry | 20.00 | 25.00 | 17.60 |
| 4,850 sq.yd. riprap, 18 in. | 4.00 | 3.00 | 5.50 |
| 1,000 sq.yd. riprap, 12 in. | 3.50 | 3.00 | 3.10 |
| 110 sq.yd. riprap, 8 in. | 3.00 | 3.00 | 2.00 |
| 124,000 lb. cast iron pipe | .05 | .05 | .05 |
| 5,600 lb. special castings | .15 | .10 | .12 |
| 500 lin.ft. removing old cast iron pipe | 1.00 | 2.00 | 1.35 |
| 450 lin.ft. relaying 12-in. cast iron pipe | 1.25 | 1.00 | 1.10 |
| 1 16-in. hydraulic valve | 350.00 | 375.00 | 400.00 |
| 1 12-in. hydraulic valve | 250.00 | 450.00 | 350.00 |
| 4 12-in. O. S. & Y. gate valves | 125.00 | 150.00 | 110.00 |
| 1 circular sluice gate | 50.00 | 60.00 | 45.00 |
| 1 12-in. fish trap | 150.00 | 200.00 | 165.00 |
| Miscellaneous small piping (lump sum) | 500.00 | 1,800.00 | 700.00 |
| 600 lb. miscellaneous iron castings | .15 | .10 | .07 |
| 4,500 lb miscellaneous wrought iron and steel work | .10 | .10 | .08 |
| Floor gratings (lump sum) | 100.00 | 150.00 | 100.00 |
| Doors and windows for gate house (lump sum) | 500.00 | 500.00 | 165.00 |
| Pipe railing (lump sum) | 150.00 | 200.00 | 80.00 |
| Miscellaneous lumber work (lump sum) | 500.00 | 2,200.00 | 275.00 |
| Extended totals | $262,324 | $272,678 | $284,418 |

**Neb., Holdrege**—I. Anderson, city clk., grading, curbing, guttering and concrete paving 38,220 sq.yds. streets in Paving Dists. 13, 14 and 15, also 3,850 ft. 24- to 36-in. vitr. clay sewers, to Roberts Constr. Co., 404 1st Natl. Bldg., Lincoln, $109,365 and $17,235 respectively.

**Neb., Madison** — Grading, etc., 6 mi. Meadow Grove-Tilden Rd., Project 139, 24 ft., Madison Co., to Theisen Bros. & Estel, Madison, $30,000.

**Neb., Wahoo**—Saunders Co., A. S. Dolezel, clk., 2 in. gravel surfacing, etc., 44,352 sq.yd. Federal and State Highway Project 27, 18 ft., to Central Bridge & Constr. Co., Wahoo.

**North Dakota** — State Hy. Comn., Bismark, and Comrs. Ransom Co., Court House, Lisbon, gravel surfacing 18 mi. road from Enderlin west and south through here, Federal Aid Project 28-A, also 9 mi. road south of Lisbon, Federal Aid Project 28-B, to N. Brolander, Wahpeton, $34,765.

**North Dakota**—State Hy. Comn. and Bd. Comrs. Stutsman Co., Court House, Jamestown, grading, graveling, etc., 8.511 mi. road from Jamestown west, Federal Aid Project 279, 11.562 mi. road from Jamestown, north and west, Federal Aid Project 56, A and B, also 8.01 mi. road from point 5 mi. south of Jamestown, Federal Aid Project 56 G and H, to C. Jackson, Jamestown. Noted May 21.

**N. D., Valley City** — Bitulithic paving about 17,840 sq.yd. Impvt. Dists. 4, 5 and 7, to Haggart Constr. Co., 214 Roberts St., Fargo, at $3.44 per sq.yd.

**Mont., Helena**—Grading, curbing, guttering, paving, etc., 11th Ave. (Dist. 145), to S. Birch & Sons Constr. Co., Helena, $59,282.

**Mo., Clinton**—Concrete paving 5,002 sq. yd. various streets, to Reed & Wheelock, Clay Center, Kan., $25,817. Noted June 11.

**Mo., Springfield**—Grading, curbing, concrete paving, etc., 9,567 sq.yd. Sherman St. from Central to Division Sts., to V. Koch, Joplin; and 4 ft. sidewalks on Prospect Ave., from High to Turner Sts., to H. Prosepri, 1220 North Campbell St., Springfield. Noted May 28.

**Mo., St. Louis**—Bd. Pub. Wks., 208 City Hall, grading, paving and concrete bridging private project between Hog Hollow and Little Lake Rd., to Industrial Track Constr. Co., 408 Market St., for Water Dept., $45,190. Noted May 21.

**Mo., St. Louis**—Bd. Pub. Wks., to Granite Bituminous Paving Co., Railway Exch. Bldg., Warrenite on concrete paving, etc., 4,940 sq.yd. Rosedale Ave. $19,749, 6,000 sq.yd. Plover Ave., $20,216; to Webb-Boone Paving Co., 5103 Fyler Ave., asphalt on concrete paving, etc., 8,300 sq.yd. Gustine St., $22,078; to Central Paving & Constr. Co., 6161 Maple Ave., Willite on concrete paving, etc., 3,950 sq.yd. Kansas St. $13,618, 4,215 sq.yd. Lemp Ave. $23,180; to Bridges Asphalt Paving Co., Buder Bldg., Tripidad asphalt paving 28,560 sq.yd. Kingshighway Blvd. $83,464, Grand-Kingshighway and Grand Blvd., $138,285; to Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., Trinidad asphalt paving, etc., 24,490 sq.yd. Morgan St., $91,602. Grand total $412,192. Noted May 28.

**Arkansas** — State Hy. Dept., Little Rock, tentatively awarded contract grading, etc., 6.25 mi. Federal Aid Project 216-A, 18 ft., to J. A. Burke, 100 North 16th St., Ft. Smith, $38,912.

**Ark., Warren**—Curbing and vitr. brick on 5 in. concrete surfacing various streets in Dist. 1, to Cook & Ransom, Ottawa, Kan., $75,502.

**Tex., Abilene**—Warrenite bituminous surfacing Swenson Ave. from 13th to Ambler Sts., to West Texas Constr. Co., Abilene, $27,921. Engrs. est. $30,000.

**Tex., Huntsville** — Walker Co., grading, bridging, etc., 4 mi. Bath-Sandy Creek Rd., to Smith & Byrd, Huntsville, approximately $28,000.

**Tex., Vernon** — Concrete surfacing 20 blocks various streets, to J. P. Foty Constr. Co., Wichita Falls, approximately $100,000. Noted June 4.

**Tex., Wichita Falls**—Rein.-con. paving portions of 12th, Scott, 4th and Buckingham Sts., to Palins Paving Co., Staley Bldg., Wichita Falls, $2.73 per sq.yd. Noted May 7.

**Okla., Okemah** — Grading and concrete surfacing, etc., 14,900 sq.yd. 4th and 3rd Sts., to Standard Paving Co., 1732 East 3rd St., Tulsa, $46,080. Engrs. est. $52,012. Noted June 4.

**N. M., Tecumcari** — Paving 15 blocks various streets, to M. R. Amerman, 310 West English St., Wichita, Kan., $78,000.

**Idaho**—Commissioner Pub. Wks., at Office P. B. Wilson, Sonnenbalk Bldg., Pocatello, grading and gravel surfacing, etc., 11,074 sq.yd. Old Oregon Trail Highway, Federal Aid Project 30-B, Power Co., to G. K. March, 1126 2nd St., Spokane, Wash., $42,769.

**Wash., Longview**—City Council concrete curbing, concrete paving, etc., L. I. D. 4, Oregon Way et al., to Olympic Constr. Co., 1326 Northlake Ave., Seattle, $222,672. Engrs. est. $196,589.

**Wash., Seattle**—Comrs. King Co. widening and repaving over existing 16 ft. paving 3 mi. Country Club Rd. from East 85th St. North, 20 ft., to J. L. Smith, 304 West 36th St., $79,183. Engrs. est. $89,186.

**Wash., Tacoma**—City Clerk, filling, riprapping, warrenite and concrete paving, etc., North Front St., to Hart Constr. Co., 711 Middle Wtwy., $374,518. Engrs. est. $414,518.

**Wash., Vancouver** — Comrs. Clarke Co. grading and graveling 2¼ mi. Road 10, to

Streets and Roads (Continued)

Lair & Co., Kelso, $26,962; engrs. est. $34,500; crushed rock surfacing 13 mi. Comas-Orchards Highway, to N. Castiapo, Portland, Ore., $62,804, engrs. est. $60,000.

**Oregon**—State Hy. Comn., Salem, grading, etc., 5,400 ft. Jackson Bottom Sect. Hillsboro-Laurel Market Rd., Washington Co., to Newport Constr. Co., Hermaston, $36,454; grading and surfacing 2.5 mi. Gold Beach Sect. Roosevelt Highway, Curry Co., to D. C. Plymate, Portland, $70,445; clearing, grading, etc., 9.63 mi. East Unit, Beacon Creek Sect. John Day Highway, Malheur Co., to H. C. Bayer, Ontario, $35,887. Grand total $142,786.

**Calif., Los Angeles** — City, to O. U. Miracle, 227 Ave. D, Redondo Beach, improving Meyler St., 635 lin.ft. light curbing at $0.55 per lin.ft., 5,635 lin.ft. curbing $0.62, 1,389 sq.ft. guttering $0.20, 30,600 sq. ft. sidewalks $0.16, 113,932 sq.ft. concrete paving $0.19, total $55,140, engrs. est. $53,748; to Warren Constr. Co., 2221 East 25th St., Beachwood Dr., 526 lin.ft. curbing $0.65, 4,104 sq.ft. guttering $0.29, 6,454 sq. ft. sidewalks $0.20, 83,070 sq.ft. asphaltic concrete $0.248, 1,480 sq.ft. asphaltic macadam $0.15, total $26,596, engrs. est. $26,667.

**Calif., Los Angeles**—Los Angeles Co., to W. J. Curren, 221 West Bway., improving Del Mar Ave., 16,688 cu.yd. excav. at $0.35 per cu.yd., 27,852 sq.yd. shaping $0.06, 19,931 sq.yd. concrete paving $1.53, 31,509 ft. sidewalks $0.15, and rein.-con. bridge $21,785, etc. Total $127,875.

**Calif., Los Angeles** — Los Angeles Co. grading, curbing and 8 in. concrete paving 436,315 sq.ft. Alameda St., to G. H. Oswald, 366 East 58th St., Los Angeles, $136,298.

**Ont., Arthur** — Rein.-con. paving George and Smith Sts., to Godson Contg. Co., 203 Richmond St. W., Toronto. Engrs. est. $35,000. Noted May 21.

**Ont., Fergus**—Asphaltic concrete paving St. Andrew St., to Brennan Constr. Co., Melrose Ave., Hamilton. Engrs. est. $75,000.

**Ont., Hamilton**—Concrete paving Barton St. E., to Frid Constr. Co., Ltd., Clyde Blk. Engrs. est. $35,000.

**Ont., Harriston**—Cement paving various streets, to W. L. Malcolm Paving Co., Kingston, $40,000.

**Ont., Sandwich** — Essex Co., cement paving Front Rd., to Cadwell Sand & Gravel Co., 228 Sandwich St., Windsor, $106,000; Division Rd. to Chick Constr. Co., McDougall Ave. Windsor, $45,000.

**Ont., Walkerville** — Concrete paving Windsor, Ottawa and Monmouth Rds., to Merlo, Merlo & Ray, Sandwich St., Ford, $142,000; various alleys to Coulotti Bros., 612 Langlois Ave. Engrs. total est. $160,000.

## Buildings—Industrial

### PROPOSED WORK

**Mass., Framingham**—FACTORY—Manufacturing Equipment & Eng. Co. having plans prepared 1 story, 60 x 200 ft., brick and steel addition, and 50 x 70 ft. japan building. $50,000. Monks & Johnson, 99 Chauncy St., Boston, engrs.

**Mass., Peabody** — FACTORY — Elvico Leather Co., Spring St., plans reconstructing factory, recently destroyed by fire. $70,000. Engineer and architect not selected.

**Mass., South Boston** (Boston P. O.)—PLANT—Air Reduction Sales Co., 342 Madison Ave., New York City, soon takes bids 1 story, plant addition. Francisco & Jacobus, 511 5th Ave., New York City, engrs. and archts.

**Mass., Watertown** (Ind. br. Boston) — DRY HOUSE — Brusene Co. having preliminary plans prepared by Monks & Johnson, 99 Chauncy St., Boston, 1 story, brick, Stanley Ave. $40,000.

**R. I., East Providence** (Providence P. O.) —STOREHOUSE—Bird & Sons, Inc., East Walpole, having preliminary plans prepared 2 or 3 story, brick and steel storehouse. $150,000. Monks & Johnson, 99 Chauncy St., engrs.

**N. Y., Bronxville** (Ind. br. Yonkers) — SERVICE—S. J. Kessler, archt. and engr., 528 Courtlandt Ave., preparing plans 4 story, brick, steel and stone, auto service building, garage and repair shop, plain foundation. $135,000. Owner's name withheld.

**Pa., Phila.**—MILL—Phila. Bag Co., 86 Tasker St., had revised plans prepared by C. E. Wunder, 1520 Locust St., and soon takes bids 2 story and basement, 101 x 128 ft. mill, Water and Dickson Sts. $100,000.

**Md., Baltimore**—PLANT—Flynn & Emrich Co., 305 North Holliday St., plans 1 story, 90x360 ft., brick plant, Exeter Hall Ave. and Taylor St. $52,000.

**Fla., West Palm Beach**—ICE PLANT—R. Gambill, Graham Bldg., Jacksonville, plans two 60 ton daily capacity ice plants, here. $300,000 each.

**Tenn., Clinton**—MILL—Magnet Knitting Mills having plans prepared by J. E. Sirrine, 305 South Main St., Greenville, S. C., hosiery mill, brick and concrete. $200,000.

**Tenn., Nashville**—MILL—Ford Flower Co., 10th Ave. N., H. O. Blackwood, pres., purchased Liberty Milling Co. and plans remodeling present plant. $75,000.

**O., Cleveland** — LAUNDRY — U. S. Wet Wash Laundry, H. Senkfor, 8120 Otter Ave., had plans prepared by W. J. Wefel, 5216 Euclid Ave., 2 story, 40 x 87 ft., brick and steel laundry. $40,000.

**O., Cleveland Heights** (Warrensville P. O.) — FACTORY and COMMERCIAL — Cedar Lee Cleaners, W. E. Krieger, mgr., 13185 Cedar Rd., had plans prepared by W. J. Wefel, 5716 Euclid Ave., Cleveland, 1 story, 40 x 130 ft., brick and steel, 13185 Cedar Rd. $40,000.

**O., Mansfield** — FACTORY — Ohio Brass Co., had plans prepared by Devore Co., 908 Nicholas Bldg., Toledo, 2 story, 50 x 60 ft. electric building, and 1 story, 80 x 200 ft. office building, both brick and steel. $75,000.

**O., Upper Sandusky**—FACTORY—Wyandott Clay Products Co. plans one story buildings, near here, to replace those recently destroyed by fire. $100,000.

**O., Wooster**—FACTORY—Toy Craft Co. plans 2 story and basement, 60 x 120 ft., brick and steel addition. $40,000.

**O., Youngstown** — FACTORY — Truscon Steel Co., 1030 Albert St., plans factory addition Albert St.

**Mich., Dearborn**—SHOP and LABORATORY, etc.—Ford Motor Co., Highland Park, had plans prepared by A. Kahn, 1000 Marquette Bldg., Detroit, 1 story, 201 x 318 ft., rein.-con., brick and steel, Porter St. and Oakland Blvd., here.

**Mich., Detroit**—SUB-STATION—Public Lighting Comn., East Atwater St., had plans prepared by Smith, Hinchman & Grylls, archts. and engrs., 800 Marquette Bldg., for Sub-Station 24, 3 story and basement, 72 x 93 ft., Livernois Ave.; also Sub-Station 34, 1 story and basement, 55 x 108 ft., Connors Ave., both rein.-con., brick and stone, plain foundation.

**Wis., Beloit**—BOILER HOUSE—Beloit Water, Gas & Electric Co., Public Serv. Bldg., plans 2 story, 40 x 65 ft., brick and concrete addition, plain foundation. Private plans.

**Wis., Tomahawk** — MILL — Raymond Lumber Co., M. M. Raymond, mgr., plans rebuilding 1 story, brick saw mill, recently destroyed by fire. $50,000. Engineer and architect not selected.

**Kan., Wichita** — WAREHOUSE, etc. — Rounds & Porter Lumber Co., Beacon Bldg., had plans prepared by H. S. Conrow, Beacon Bldg., 1 story, 250 x 300 ft. warehouse and office building. $80,000 to $100,000.

**Neb., Bloomfield**—PLANT—Voted $50,000 bonds electric light plant. Noted May 21.

**Mo., St. Joseph**—STORAGE TANK and WAREHOUSE — Sinclair Oil Co., J. E. Dyer, dist. mgr., plans storage tank and warehouse, 4th and Franklin Sts. $50,000.

**Tex., Bastrop**—POWER PLANT—Texas Pub. Utilities Co. Waco, purchased Bastrop Water, Light & Ice Co. and plans power station, here, to supply surrounding towns. $250,000. Private plans.

**Tex., Temple** — ICE PLANT — J. C. Mitchell, c/o Temple Ice & Refrigerating Co., 401-409 South 2nd St., et al, purchased site and plans new ice plant, 7th and 9th Sts., Avenue A and Santa Fe R.R. tracks. $150,000. Engineer and architect not selected. Noted May 28.

**Calif., Pittsburg**—PLANT—H. W. Johns-Manville Co., 500 Post St., San Francisco, plans factory, here. $1,000,000.

**Ont., London**—PLANT—Hobbs Mfg. Co., York and Ridout Sts., plans rebuilding plant, recently destroyed by fire. Loss $40,000.

**Ont., Owen Sound**—PLANT—Hisey Bros., Creemore, plans new packing plant, 3rd Ave. $40,000.

### BIDS DESIRED

**Mass., Quincy** (Boston P. O.)—PLANT—White Bros., 85 Brooks St., Norfolk Downs, taking bids 2 story and basement, rein.-con., brick, tile and steel, Brooks St., here. $40,000. W. E. Luke, 365 Powder House Rd., Somerville, archt.

**Mass., Waltham** (Boston P. O.)—SHOP—J. L. Thomson, Roberts St., taking bids 3 story and basement, 50 x 100 ft., rein.-con. and brick machine shop extension. To exceed $40,000. A. E. Gray, 509 Exch. Bldg., Boston, archt.

**N. Y., Jamestown**—PLANT—June 30, by Bd. Pub. Utilities, extending lighting plant, Steele St. L. T. Klauder, Bankers Trust Bldg., Phila., Pa., consult. engr.

**N. Y., New York**—REPAIR—July 1, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., repair headquarters building at East Bronx Pipe Yard, Zerega and Houghton Aves.

**Pa., Phila.**—BOILER HOUSE—June 22, by Ballinger Co., engrs., 12th and Chestnut Sts., one water tube boiler house, 500 hp. coal stoker and power piping, etc., Margaret and James Sts., for Blumenthal Bros., Margaret and Bermuda Sts.

**O., Cleveland** — FACTORY — Industrial Fibre Co., c/o Artificial Silk Co., C. A. Nau, constr. mgr., 9801 Walford Ave., taking bids 1 story, 100 x 200 ft., 50 x 80 ft., 20 x 60 ft., also 25 x 40 ft., 41 x 200 and 100 x 100 ft., brick and steel additions, West 98th St., $200,000. Private plans. Noted June 11.

**Mich., Detroit** — FACTORY — Packard Motor Co., East Grand Blvd., taking bids 1 story, 85 x 150 ft. export shipping building, incl. woodworking shop, brick and steel, East Grand Blvd. $40,000. A. Kahn, 1000 Marquette Bldg., Detroit, archt.

**Ill., Quincy** — FACTORY — G. Behrensmeyer, archt., 430½ Maine St., taking bids 2 story, 61 x 467 ft. main building with 61 x 350 ft. and 61 x 250 ft. wings, also 1 story, 90 x 260 ft. stamping building, etc., all rein.-con., brick and steel, 12 St. and Chicago, Burlington & Quincy R.R. tracks, here, for General Radiator Co., c/o C. W. Gillette, chn., 547 West Jackson St., Chicago.

**Wis., Waukesha**—MANUFACTURING—Eckerman & Ruddell, engrs. and archts., 279 Layton Blvd., Milwaukee, taking bids 2 story and basement, 52 x 75 ft., brick and timber, here, for Waukesha Jelly Powder Co., Bway. and East Ave. $45,000.

### CONTRACTS AWARDED

**Mass., Boston**—FACTORY—Air Reduction Sales Co., 122 Mt. Vernon St., Dorchester, 2 story, 60 x 80 ft. and 40 x 40 ft., rein.-con. and brick, to J. F. Fitzgerald Constr. Co., 294 Washington St. Archts. est. $50,000.

**Mass., Boston**—MANUFACTURING—A. J. Tower Co., 18 Simmons St., Roxbury, 5 story, 75 x 100 ft., timber addition, here, to Whidden-Beekman Co., 100 Boylston St., Boston. Archts. est. to exceed $40,000.

**Mass., Everett** (Boston P. O.)—SHOP—New England Tank & Tower Co., 44 Main St., 1 story, 50 x 215 ft., brick and steel, Tileson St., to Hudson Constr. Co., 6 Beacon St., Boston. Archts. est. $40,000. Excav. Drainage etc.

**Mass., Forest Hills** (Boston P. O.)—CAR HOUSE—Boston Elevated Ry., Park Sq. Bldg., Boston, 1 story, 90 x 300 ft., rein.-con., brick and steel, here, to Simpson Bros. Corp., 77 Summer St., Boston. Archts. est. $100,000.

**Mass., Lawrence**—PLANT—H. P. Hood & Sons, Charlestown, 1 story, brick addition, to Somers & Drisco, 168 Dartmouth St., Boston. Archts. est .$40,000. Noted Apr. 23.

**Mass., Lynn** — SHOP, STORAGE and GARAGE—City, R. F. Hand, City Hall, 2 story, 50 x 142 ft., rein.-con., Bennett St., to C. S. Cunningham & Sons Constr. Co., 80 Boylston St., Boston, $67,400. Noted May 28.

**Mass., Medford** (Boston P. O.)—REPAIR and SERVICE GARAGE—Boston Elevated Ry. Co., Park Sq. Bldg., Boston, 1 story, 112 x 120 ft., brick and steel, Salem St., here, to Tredennick Billings Co., 10 High St., Boston. Archts. est. $120,000. Noted May 21.

**Mass., New Bedford**—MILL—Gilt Edge Silk Mills, 1145 Kempton St., 2 story, 52 x 160 ft. brick and steel mill, to G. Howard & Sons Co., 888 Purchase St. Archts. est. $50,000. Noted June 4.

**Mass., Roxbury** (Boston P. O.) — BAKERY—Berwick Cake Co., 2220 Washington St., 3 story, 70 x 130 ft., rein.-con. and brick, Palmer St., to J. W. Bishop Co., 683 Atlantic Ave., Boston. Archts. est. to exceed $40,000. Noted May 7.

**Mass., Springfield** — WAREHOUSE — Crane Co., 836 South Michigan Ave., Chicago, Ill., 2 or 3 story and basement, 87 x 130 ft., rein.-con., brick and steel, Columbus Ave., to E. F. Carlson, 244 Main St. Archts. est. $150,000-$200,000.

**N. Y., New York**—GARAGE, etc.—J. Miller, pres. Manhattan Boro, Municipal Bldg.,

Buildings—Industrial (Continued)

garage addition at asphalt plant, also stone dust storage building addition, 90th St. and East River, to G. A. Glantz, $66,725. Noted June 11.

**Pa., Phila.**—DYE HOUSE—Ballinger Co., archts., 12th and Chestnut Sts., 1 story and basement, 42x110 ft., brick, plain foundation, Pensdale and Mitchell Sts., for Kaufman Plush Mills, Pensdale St., to R. E. Lamb, 843 North 19th St.

**Pa., Williamsport**—FACTORY—Crooks-Dittmar Co., Day St., 1 story, 340 x 385 ft., brick and steel, Susquehanna St., to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O., $200,000.

**D. C., Wash.**—POWER PLANT—Dist. Comrs., power plant, to W. G. Cornell Co., 19 Patterson St., N. E., $155,136.

**D. C., Wash.** — FACTORY — Natl. Radiator Co., 1228 H St. N. W., 1 story, 72 x 225 ft., brick and steel, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O. Archts. est. $75,000.

**Va., Arlington** — FACTORY — Phoenix Stone Co., 1 story, 136 x 250 ft., rein.-con., steel and corrugated iron factory, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O. Archts. est. $100,000.

**Ala., Fairfield**—MILL—Tennessee Coal, Iron & R.R. Co., B. M. Bldg., Birmingham, G. G. Crawford, pres., will enlarge plant, here. Work will be done by day labor. $1,000,000.

**Ala., Gadsden**—PLANT—H. Weeter Mfg. Co., 1 story, 122 x 500 ft., steel and concrete, and 60 x 60 ft. steel buildings, to Ingalls Iron Co., 2716 North 26th St., Birmingham, $250,000. Noted June 11.

**Tenn., Nashville** — FACTORY — Carter Shoe Co., Louisville & Nashville R.R., 1 story and basement, 50 x 250 ft., concrete and brick addition, to J. L. Webb Constr. Co., 214 Shelby Ave., approximately $125,000. Noted June 26.

**Mich., River Rouge**—PLANT—Ford Motor Co., Highland Park (Detroit P. O.), 1 story, 400 x 1,060 ft., open hearth building, brick and steel, plain foundation, to Bryant & Detwiler Co., 2336 Dime Bank Bldg.

**O., Cincinnati**—FACTORY—Natl. Radiator Co., Un. Centr. Bldg., 1 story, 60 x 180 ft., brick and steel factory, to H. K. Ferguson Co., 4900 Euclid Ave., Cleveland. Archts. est. $60,000.

**O., Cleveland** — FACTORY — Ferro Enameling Co., C. M. Horn, secy., 4150 East 56th St., 2 story, 23 x 54 ft., brick and steel enameling room addition, to P. Kirschner & Co., 2914 East 75th St. Archts. est. about $40,000.

**O., Cleveland**—FACTORY—K. V. Painter, 6523 Euclid Ave., 2 story and basement, 40 x 110 ft., brick and steel, 1960 East 24th St., to H. K. Ferguson Co., 4900 Euclid Ave. Archts. est. $45,000. Solenberger Piston Ring Co., 1966 East 66th St., lessee.

**Ill., Chicago**—FACTORY—Trustees of Central Mfg. Dist., 38 South Dearborn St., c/o J. B. Whidden, sales mgr., 2 story and basement, 50 x 123 ft. factory, 3350 West 48th Pl., to E. W. Sproul Co., 2001 West Pershing Rd. $62,000. Wallace Bros. Waste Co., 1347 South Ashland St., lessee.

**Wis., Marshfield** — FACTORY — Felker Bros. Mfg. Co., Depot and Chestnut Sts., 1 and 2 story, 68 x 77 ft., brick and concrete, plain foundation, to Krasin Bros., Central Ave. Archts. est. $40,000. Noted May 21.

**Wis., Milwaukee** — FACTORY — Lindsay Bros., 78 Reed St., 3 story, 65 x 137 ft., brick and concrete, to W. F. Tubesing, 373 Bway. Archts. est. $40,000. Noted Feb. 19.

**Wis., Milwaukee** — PLANT — Silurian Waukesha Water Distributing Co., 430 3rd St., 2 story and basement, 40 x 100 ft., brick and concrete, plain foundation, Weil St., to S. Czaplewski, 878 2nd Ave. Archts. est. $40,000.

**Wis., Neenah**—PAPER MILL—Kimberly-Clark Co., 5 story and basement, 82 x 90 ft., brick and concrete addition, plain foundation, to Wisconsin Eng. & Constr. Co., Beilin Bldg., Green Bay.

**Wis., Oshkosh** — COLD STORAGE — Segal Co., 607 South Main St., 3 story and basement, 42 x 70 ft., brick and timber, plain foundation, to C. R. Meyer & Co., 50 State St. Archts. est. $45,000.

**Wis., Prairie du Sac**—SHOP—Wisconsin River Power Co., 16 North Carroll St., Madison, 1 story, 50 x 50 ft., rein.-con., brick and steel shop and garage, to Dresen Bros. Co., Prairie du Sac. Archts. est. $40,000.

**Wis., Sheboygan** — FACTORY — Ross-Speller Co., South 9th and Water Sts., 2 story, 40 x 64 ft., rein.-con., brick and steel, plain foundation, to Guenther & Meier, 1224 North 4th St. Archts. est. $40,000.

**ROAD WORK—IDAHO**

Following are lowest three bids opened by Dept. Pub. Wks., Bureau Highways, Boise, Apr. 22, for improving 15.03 mi. North and South Highway between Grangeville and Cottonwood, (A) Payne & Doust, Spokane, Wash. (awarded contract); (B) J. E. Edwards, Spokane; (C) Morrison Knudson, Boise. The unit bids are as follows:

| | A | B | C |
|---|---|---|---|
| 4,265 cu.yd. excavation, solid rock | $1 50 | $1 60 | $1 50 |
| 68,311 cu.yd. excavation, earth | 30 | 31 | 27 |
| 83,101 st.yd. overhaul on excavation | 05 | 05 | 04 |
| 39,678 cu.yd. crushed rock surfacing | 1 72 | 1 84 | 1 93 |
| 5,555 cu.yd surfacing binder | 60 | 30 | 44 |
| 0.27 mi. reshaping old road | 500 00 | 300 00 | 370 00 |
| 264.34 cu.yd concrete, class "A" | 28 00 | 26 00 | 30 00 |
| 44.25 cu.yd. concrete, class "B" | 28 00 | 26 00 | 28 00 |
| 26,444 lb. metal reinforcement | 09 | 085 | 08 |
| 1,514 ft. 18 in. G.I. pipe, haul and place | 40 | 25 | 40 |
| 510 ft. 24 in. G.I. pipe, haul and place | 50 | 35 | 50 |
| 100 cu.yd. stripping pits | 35 | 25 | 27 |
| Extended totals | $114,676 | $117,764 | $119,460 |

**Wis., Wausau**—CREAMERY—Kleinheinz Dairy Co., 121 South 2nd St., 1 and 2 story, 48 x 112 ft., brick and concrete, plain foundation, to C. Hackbarth, 314 Bridge St. Engrs. est. $50,000.

**Ia., Newton**—FACTORY—Maytag & Co., general contract 2 story, 100 x 290 ft., rein.-con. and brick factory addition, to Lanning Constr. Co., Evans Bldg., Des Moines, $141,000. Noted June 4.

**Minn., Minneapolis**—FACTORY—Cosby-Wirth Sales Book Co., 422 Washington Ave. N., rejected bids 1 and 2 story and basement, 110 x 144 ft. factory, 16th and Washington Aves. N. $45,000. Project postponed indefinitely. Noted Mar. 19.

**Minn., St. Paul**—SHOP, etc.—Northern Pacific Ry. Co., Railway Bldg., general contract 2 story and basement, 50 x 112 ft. commissary building, 1 story, 40 x 100 ft. pullman building, 1 story, 40 x 96 ft. battery building, 1 story, 40 x 97 ft. storehouse, 1 story, 40 x 40 ft. car shop, and 1 story boiler shop, etc., East 3rd and Commercial Sts., to Butler Bros., 643 Hamm Bldg. Noted May 14.

**Minn., St. Paul**—WAREHOUSE—Waldorf Paper Products Co., Myrtle St. and Pillsbury Ave., general contract 1 story, 80 x 340 ft., steel, Hampden and University Aves., to P. Steenberg Constr. Co., 915 Builders Exch. Archts. total est. $100,000.

**Minn., South St. Paul**—ROUNDHOUSE and SHOP — Chicago, Milwaukee & St. Paul R.R. Co., 80 East Jackson Blvd., Chicago, Ill., general contract roundhouse and machine shops, here, to H. C. Struchen, 405 Dakota Bldg., St. Paul. Archts. total est. $1,000,000. Private plans.

**Kan., Larned**—POWER PLANT—State Bd. Administration, State House, will build 1 story, 55 x 108 ft., rein.-con., brick and stone power plant, by day labor. Archts. est. $60,000. Noted June 4.

**Kan., Topeka**—ROUNDHOUSE—Atchison, Topeka & Santa Fe R.R. Co., Ry. Exch. Bldg., Chicago, Ill., 1 story, brick roundhouse, here, to McKee Constr. Co., El Paso, Tex. Archts. est. $150,000.

**Mo., Kansas City**—BAKERY—Consumers Bread Co., 405 Elmhurst Bldg., general contract, 1 story and basement, 80 x 115 ft. brick bakery, to Bickel Constr. Co., 1817 Walnut St.

**Mo., St. Louis**—CLEANING and DYEING — Enterprise Cleaning Co., 4225-31 West Easton Ave., 2 story, 65 x 129 ft., rein.-con. and brick, Easton Ave., to C. A. Welsch Constr. Co., 119 North 7th St. Archts. est. $50,000.

**Mo., St. Louis** — ROUND HOUSE — Missouri-Pacific R.R. Co., Ry. Exch. Bldg., general contract 1 story, 81 x 100 ft., rein.-con. and brick roundhouse, Chouteau St., to Kellerman Contg. Co., Victoria Bldg. Engrs. est. $90,000.

**Mo., St. Louis** — MILK DEPOT — St. Louis Dairy Co., 21st and Pine Sts., 1 and 2 story, 65 x 130 ft., rein.-con. and brick, Gravois St., to Widmer Eng. & Constr. Co., Laclede Gas Light Bldg. Archts. est. $40,000.

**Mo., St. Louis**—POWER PLANT—Union Electric Light & Power Co., 12th and Locust Blvds., altering and improving 2 story, rein.-con. and brick, 10th and Charles Sts., to Fruin-Colnon Constr. Co., Merchants Laclede Bldg. Archts. est. $40,000.

**Ark., Little Rock**—FACTORY—Capital City Casket Co., 604 East Markham St., 3 story, 75 x 160 ft., brick and concrete, Garland and Pulaski Sts., to Jenkins & Apple, Little Rock. Archts. est. $45,000.

**Okla., Oklahoma City**—SUBSTATIONS—Oklahoma Gas & Electric Co., 112 North Bway., had preliminary plans prepared new 1,000 kw. electric substation at fair grounds, and 600 kw. station at Capitol Hill. Work will be done by day labor. $40,000. Byllesby Eng. Co., 231 South La Salle St., Chicago, Ill., engrs.

**Wash., Longview** — LUMBER SHEDS, etc.—Long Bell Lumber Co., three 74 x 1,228 ft. unstacker sheds, three 74 x 825 ft. rough lumber sheds, three 74 x 660 ft. dressed lumber sheds, two 84 x 660 ft. loading sheds, and one 104 x 715 ft. broken package shed, to Grant Smith & Co., Henry Bldg., Seattle, $300,000.

**Calif., Azusa**—PLANT—California Publishing Co., Los Angeles, 1 story, 60 x 200 ft., and two 1 story, 40 x 60 ft., brick, Keeney Grove, near here, to Union Eng. Co., 301 Bartlett Bldg., Los Angeles, $50,000.

**Calif., Azusa**—FACTORY—West Coast Trimming Co., 312 South Hill St., Los Angeles, 1 story, 78 x 232 ft., brick, Keeney Grove, near here, to Union Eng. Co., 301 Bartlett Bldg., Los Angeles, $60,000.

**Calif., Los Angeles** — PLANT — Federal Cold Storage Co., 6 story and basement, 200 x 700 ft. cold storage plant, District Blvd. and Union Pacific R.R. tracks to Scofield Eng. Co., 728 Pacific Finance Bldg., $435,000.

**Ont., Toronto** — REFINERY — McColl Bros., 114 Don Esplanade Ave., oil refinery, brick, general contract, to Russell Constr. Co., Harbor Bldg.; stills, to J. Inglis Co. Ltd., Strachan Ave.; steel tanks, to Horton Steel Wks. Ltd., Bridgeburg; boilers, to Vickers Combustion Eng. Co., Bank of Hamilton Bldg. Archts. total est. $750,000. Noted Jan. 22.

## Buildings—Commercial

**PROPOSED WORK**

**Mass., Boston**—HOTEL—C. H. Blackhall, archt., 20 Beacon St., preparing plans hotel, Tremont St. and Seaver Pl. To exceed $150,000. Owners name withheld.

**Mass., Cambridge** (Boston P. O.)—STORE—B. and G. Realty Co., c/o Carrig & Hurley, 671 Massachusetts Ave., plans group stores, and auto sales rooms, 1075 Massachusetts Ave. and Trowbridge St. $150,000 or more. Engineer and architect not selected.

**Mass., Greenfield**—HOSPITAL—Franklin Co. Public Hospital, H. C. Stetson, chn. com. having sketches made by Kendall, Taylor & Co., 142 Berkley St., Boston, 3 story and basement, brick, High St. $300,000.

**Mass., Lawrence**—STORE and OFFICE—W. G. Hall & A. Perros, Essex St., plan rebuilding store and office building, Essex St., recently destroyed by fire. $200,000. Engineer and architect not selected.

**Mass., Newton** (Ind. br. Boston)—HOME—Baptist Home, 300 Brookline St., Cambridge, having sketches made by Kendall & Co., 142 Berkley St., Boston, 2 story, rein.-con. and brick, Commonwealth Ave. and Lake St. $150,000 or more. Noted Nov. 13.

**Mass., Norwood**—MERCANTILE—Norwood Furniture Co., having preliminary plans prepared by M. Sullivan, 100 Boylston St., Boston, 2 story and basement, brick and limestone mercantile building. $150,000.

**Mass., Quincy** (Boston P. O.) — THEATRE, etc.—Wollaston Palace Theatre Co., W. W. Wilson, pres., 64 Fenno St., having revised plans prepared by M. J. Allen, Inc., State Theatre Bldg., Massachusetts Ave., Boston, 2 story, 70 x 200 ft., brick theatre, store and apartment building. $150,000.

**Mass., Wellesley**—DORMITORY—Wellesley College, having plans prepared by Day & Klauder, Franklin Bank Bldg., Phila., Pa., rein.-con., brick and steel, plain foundation, on campus. $300,000. Noted Feb. 19.

**Conn., Hartford** — FIRE HEADQUARTERS—City, having plans prepared by Smith & Bassette, 36 Pearl St., brick and stone

Buildings—Commercial (Continued)

addition, Pearl St. $250,000. Noted Apr. 16.

**Conn., Hartford** — THEATRE, STORE and OFFICE—M. Shulman & Sons, 1764 Park St., having plans prepared by G. Zunner, 182 High St., 3 story, and basement, 95 x 115 ft., brick and steel, plain foundation, Park St. $200,000.

**Conn., Wallingford**—ADMINISTRATION and HOME — Gaylord Farm Sanatorium, D. R. Lyman, doctor, having plans prepared by J. F. Kelly, 39 Center St., New Haven, doctors and nurses home and administration building, brick and steel, Gaylord Farm. $275,000.

**N. Y., Brooklyn**—APARTMENTS—Parkway Union Corp., c/o Shampan & Shampan, archts. and engrs., 189 Montague St., having plans prepared two 6 story, brick, steel and stone, plain foundations, Eastern Parkway. $700,000 each.

**N. Y., Brooklyn** — EXCHANGE — New York Telephone Co., 15 Dey St., New York City, having plans prepared by McKenzie, Voorhees & Gmelin, archts. and engrs., 342 Madison Ave., New York City, 4 story, rein.-con., brick and steel, plain foundation, Ocean Ave. $475,000.

**N. Y., Cheektowaga** — TOWN HALL — Plans new town hall, Bway. $200,000. Engineer and architect not selected.

**N. Y., Lackawanna**—HOTEL—Hoepfinger Bros., 1029 Ridge Rd., plans hotel, Ridge Rd. $200,000. Engineer and architect not selected.

**N. Y., New York**—OFFICE—J. C. and M. G. Mayer, 347 Madison Ave., plans 35 story, 175 x 197 ft., brick and stone, plain foundation, 42nd St. and Lexington Ave. $8,000,000. Engineer and architect not selected.

**N. J., Trenton** — POLICE STATION — City Comn. plans police station. $200,000. G. B. LaBarre, dir. Pub. Safety. Engineer and architect not selected.

**Pa., Phila.** — OFFICE and BANK — Mutual Trust Co., 4th and Market Sts., having plans prepared by Ballinger Co., 12th and Chestnut Sts., and Heacock & Hokenson, 1211 Chestnut St., 18 story and basement, about 25 x 125 ft., brick and steel, 518 Walnut St. Noted Apr. 2.

**Pa., Phila.**—OFFICE and RESTAURANT—Horn & Hardart, 240 South 10th St., having plans prepared by R. B. Benckert, Bellevue Bldg., 9 story, basement and subbasement, 42 x 153 ft., brick and steel, plain foundation, 16th and Chestnut Sts.

**Pa., Pittsburgh**—HOSPITAL—Montefiore Hospital, 3000 Center St., having plans prepared by Schmidt, Garden & Martin, 104 South Michigan Ave., Chicago, Ill., and H. Hornbostel, associated archt., Century Bldg., hospital, 5th Ave. and Darrogh St. $1,000,000.

**Pa., Pittsburgh**—HOSPITAL—Shriners Natl. Hospital Fund, c/o S. P. Cochran, pres., Dallas, Tex., having plans prepared by Hentz, Reed & Adler, Candler Bldg., Atlanta, Ga., brick and stone children's hospital, Stanton Ave., here. $600,000.

**Md., Baltimore** — APARTMENT — M. J. Stein, 9 North Liberty St., having plans prepared by C. N. and N. Friz, Lexington Bldg., 6 story and basement, 100 x 100 ft., brick and steel, plain foundation, Lake Dr. east of Eutaw Pl. $300,000.

**Fla., Clearmont**—HOTEL—H. D. Washburn, H. Conrad and T. L. Hendrix, Lakeland, who will organize The Ridge County Holding Co., plan "Top of Florida Hotel," 7 story, steel, Cooper Park. $250,000.

**Fla., Ft. Myers**—HOTEL—W. P. Franklin and associates, plan Hotel Edison, 10 story, Jackson and 2nd Sts. $750,000.

**Fla., Pensacola**—HOTEL—A. C. Allen & Associates, c/o West Florida Development & Investment Co., plan hotel, La Rua St. between Baylen and Spring Sts. $300,000.

**Fla., Tampa**—OFFICE—J. A. Crenshaw, 311 7th Ave., plans 15 to 20 story office building, Washington and Tampa Sts. $1,000,000.

**La., New Orleans**—THEATRE—Ehrlich Bros. associated with Saenger Amusement Co., Tulane and Liberty Sts., having plans prepared by E. Weil, Whitney Central Bank Bldg., remodeling Saenger Theatre, Milam and Louisiana Sts. $175,000.

**La., Shreveport** — THEATRE — C. T. Thompson, Texarkana, Ark., plans 3 story and basement, 40 x 150 ft., concrete and brick, Milan St. near Marshall St., here. $150,000. Engineer and architect not selected.

**O., Cleveland**—APARTMENT—F. C. Herrick, 8314 Euclid Ave., having plans prepared by C. S. Schneider, 2258 Euclid Ave., 3 story and basement, brick and timber, East 86th St. $250,000.

**O., Cleveland**—COTTAGES, etc.—City, D. Blossom, dir. Pub. Welfare, City Hall, had plans prepared by H. Kregelius, City Hall, 1 and 2 story building for girls farm $100,000, cottage for boys farm $40,000, cottage for tuberculosis sanitarium $40,000, superintendent's residence $15,000, and health station $15,000.

**O., Cleveland Heights** (Warrensville P. O.)—LIBRARY—Cleveland Heights Library Bd., c/o C. E. Adams, pres., having plans prepared by J. H. Graham & Co., 1612 Euclid Ave., Cleveland, Public Library, brick, steel and concrete, Coventry Rd. and Washington Blvd. $150,000.

**O., Lakewood** (Cleveland P. O.) — APARTMENT HOTEL—Beaconsfield Hotel Co., c/o J. W. Gillespie, pres., 15407 Detroit Ave., Cleveland, having preliminary plans prepared by J. F. Cavanaugh, 2729 Prospect Ave., Cleveland, 6 story and basement, 126 x 140 ft., brick, steel and concrete, Detroit and Mars Aves. $350,000.

**Mich., Detroit**—APARTMENT—C. D. Lundblad, archt., 912 Donovan Bldg., plans 3 story and basement, 35 x 150 ft., brick, steel and stone, plain foundation, Brush St. $200,000. Owner's name withheld.

**Mich., Detroit** — APARTMENT — A. Komaroff, 1033 Dime Bank Bldg., having plans prepared by M. Finkel, 1333 Book Bldg., 4 story and basement, 100 x 177 ft., brick and steel, plain foundation, Willis St. $200,000.

**Wis., Kenosha** — CLUB — Italian-Amer. Society, L. Montemurro, pres., 117 South Newell St., having plans prepared by C. O. Augustine, North Main St., 3 story and basement, brick and tile, plain foundation. $150,000.

**Wis., Madison** — DORMITORY—University of Wisconsin, J. D. Phillips, bus. mgr., having plans prepared by A. Peabody, State Capitol, two groups rein.-con., brick and steel dormitories for men. $900,000. Noted Feb. 19.

**Wis., Madison**—HOTEL—Hotel Wisconsin Realty Co., 86 Michigan St., Milwaukee, soon takes bids 8 or 10 story, brick and concrete addition to Hotel Loraine, plain foundation. $250,000. M. Tullgren & Sons, 425 East Water St., Milwaukee, archts. Noted Feb. 19.

**Wis., Milwaukee** — APARTMENT and STORE—Lillydahl Bros., 425 East Water St., plans 3 story and basement, brick and tile, Astor St. $150,000. Engineer and architect not selected.

**Wis., Milwaukee** — BUSINESS — J. B. Olinger, 194 3rd St., having revised plans prepared by Leiser & Holst, 105 Wells St., 4 story and basement, 42 x 120 ft., and 1 story, 42 x 120 ft. top addition to present building, brick and steel, plain and wood pile foundation, 3rd St. and Wells Ave. Noted June 4.

**Wis., Milwaukee** — TEMPLE — Tripoli Temple, Nobles of Mystic Shrine, L. Schneller, 399 4th St., chn. building com., plans 3 story and basement, 100 x 120 ft., brick or stone and concrete, Grand Ave. $450,000. Engineer and architect not selected.

**Wis., Waukesha**—BATH HOUSE—Waukesha Moor Baths, Prospect Ave., had plans prepared by Van Ryn & De Gelleke, 114 Grand Ave., Milwaukee, 3 story and basement, 55 x 140 ft., rein.-con. and brick addition, plain foundation. $150,000. Noted Feb. 12.

**Ia., Cedar Rapids**—MEMORIAL—Voted $800,000 bonds, 3 story and basement, 160 x 270 ft. veterans memorial building, Municipal Island. Noted May 21.

**Ia., Des Moines**—LODGE—Des Moines Consistory 3, Masonic Temple, takes bids about Oct. 1, 117 x 162 ft. lodge, 75 ft. high, rein.-con., steel and stone, 6th and Park Sts. Wetherell & Harrison, 1012 S. & L. Bldg., archts. Keffer & Hones, 202 Masonic Temple Bldg., consult. archts. Noted Jan. 1.

**Ia., Marshalltown**—THEATRE, etc.—A. H. Blank Enterprises, 326 Iowa Bldg., Des Moines, postponed until 1926 building 3 or 4 story and basement, rein.-con., brick, tile and stone, theatre, store and office building. $400,000 or more. Engineer and architect not announced. Noted Jan. 29.

**Ia., Sioux City** — EXCHANGE — Sioux City Telephone Co., 314-16 Jones St., having plans prepared by W. L. Steele, Union Bank Bldg., 3 story and basement, 95 x 150 ft., rein.-con., brick, 9th and Douglas Sts. $275,000.

**Kan., Independence** — TEMPLE — York Rite Masonic Lodge, c/o R. Schultz, grand master, having plans prepared by C. A. Smith, 800 Finance Bldg., Kansas City, Mo., 3 story and basement, 80 x 120 ft., rein.-con., brick and stone, 6th and Myrtle Sts. $250,000. Noted Mar. 12.

**Kan., Wichita** — OFFICE and WAREHOUSE — Grant-Billingsley Produce Co., 123 North Rock Island, plans 6 story and basement, 107 x 140 ft., rein.-con. and brick office and warehouse building. $250,000. Engineer and warehouse not selected.

**N. D., Fargo**—LODGE—Grand Lodge A. O. U. W., Fargo, having plans prepared by Keith & Kurke, 211 Equity Bldg., 3 story, 60 x 80 ft., rein.-con. and stone, 10th St. and 2nd Ave. N. $150,000.

**Mo., Jefferson City** — HOTEL — Realty Holding Co. having preliminary plans prepared 5 story and basement, rein.-con., brick and stone, East High and Adams Sts. $300,000. Private plans.

**Mo., Joplin**—Y. M. C. A., 510 Wall St., W. J. Leffen, trustee, plans new building. $500,000.

**Mo., Joplin** — Y. W. C. A. having preliminary plans prepared 3 story and basement, rein.-con., brick and stone building with swimming pool, gymnasium, dormitories, etc. $350,000.

**Mo., Kansas City**—BUSINESS—F. G. Bonfields, c/o F. C. Gunn, archt., 1118 Continental Bldg., having preliminary plans prepared 3 story and basement, 112 x 116 ft., rein.-con., brick, steel and terra cotta. $300,000.

**Mo., Kansas City**—HOSPITAL—Kansas Conference of Augustana Lutheran Synod having plans prepared by M. J. Strum, Chicago, Ill. 5 story and basement, 42 x 104 ft. addition and 2 story, 24 x 56 ft. heating plant for nurses home, both rein.-con., plain foundation, 30th and Wyandotte Sts. $150,000. H. C. Eckland & Co., Moline, Ill., engrs.

**Mo., Kansas City** — HOTEL — Rogers-Johnson Building Co., Title Bldg., having plans prepared by W. Koch, 801 Mutual Bldg., 10 story and basement, 48 x 132 ft., rein.-con., plain foundation, 1016-18 Locust St. $600,000. R. E. Peden, 3500 Troost Ave., engr.

**Mo., Kansas City**—HOTEL—A. R. Young, Barclay Bldg., having plans prepared by J. S. White, Barclay Bldg., 12 story and basement, 68 x 180 ft., rein.-con., plain foundation, 3623 Bway.

**Mo., St. Louis**—HOTEL—Coronado Hotel Co., 1042 International Life Bldg., having preliminary plans prepared by P. J. Bradshaw, 1012 International Life Bldg., 14 story and basement, 93 x 99 ft., rein.-con., brick, stone, steel and terra cotta addition, Spring Ave. and Lindell Blvd. $500,000.

**Mo., St. Louis**—MASONIC TEMPLE—Beacon Lodge A. F. & A. M., c/o H. Kroeple, master, 4254A Farlin Ave., purchased site and having preliminary plans prepared rein.-con., brick and stone, Kingshighway and Lorain Ave. $200,000. Private plans.

**Mo., St. Louis**—STORE—Hub Furniture Co., C. F. Levy, 8th St. and Washington Ave., soon takes bids new 10 story and basement, rein.-con., brick, also 2 story addition to existing 8 story building, Washington Ave. $450,000.

**Mo., St. Louis**—THEATRE and STORE—R. Levine, c/o R. Levine & Co., Inc., archts., 6951 South Green St., Chicago, Ill., having preliminary plans prepared 3 story and basement, 147 x 213 ft., rein.-con., brick and terra cotta, Gravois St., here. $300,000.

**Ark., Ft. Smith** — CITY HALL, etc. — Plans election $250,000 bonds for city hall and auditorium, $35,000 for fire station and equipment, and $20,000 for annex to Carnegie Library. M. J. Miller, comr.

**Ark., Paragould**—THEATRE—M. Simms et al., having plans prepared by E. M. Weems, Paragould, 50 x 120 ft. theatre. $150,000.

**Ark., Texarkana** — CITY HALL — City having plans prepared by Witt, Seibert & Halsey, 811 Texarkana Natl. Bank Bldg., 3 story, rein.-con. and stone, 3rd and Walnut Sts. $250,000. Noted May 1.

**Tex., Dallas**—OFFICE—Z. E. Marvin, Rowan Bldg., having plans prepared by Lang & Witchell, Amer. Exch. Bank Bldg., 10 story and basement, 50 x 100 ft., rein.-con., brick, steel and terra cotta, Akard and Main Sts. $450,000.

**Tex., San Antonio**—CLUB—Historic San Antonio and Casino Clubs, Casino Hall, plan 6 story and basement, 21 x 122 ft., rein.-con., brick and stone, plain foundation, Press and Crockett Sts. $200,000. Engineer and architect not selected.

**Tex., San Antonio** — DORMITORY — Westmoreland College, 726 West Waco St., having plans prepared by Adams & Adams, archts. and engrs., 3 story and part basement, rein.-con., brick and stone, plain foundation, West End. $150,000.

**Tex., Wichita Falls** — HOTEL — R. M. Waggoner, et al, plan 10 story and basement, 300 or 400 room, brick and rein.-con., 8th and Indiana Sts. $650,000. Engineer and architect not selected.

**Okla., Bartlesville** — OFFICE — Phillips Petroleum Co. plans 7 story and basement, 65 x 140 ft. office building. $500,000.

**Okla., Oklahoma City** — BANK and OFFICE—J. B. Jones, Amer. Natl. Bank Bldg., having plans prepared by Hawk & Parr, Cotton Exch. Bldg., 3 story and basement, 50 x 140 ft., rein.-con. and brick, plain foundation, 2nd and Robinson Sts. $150,000.

**Wash., Okanogan**—SANITARIUM—Epso Products Co., Oroville, E. A. Sherwood, mgr., plans sanitarium and resort on Osooyos Lake. $1,000,000.

Buildings—Commercial (Continued)

**Wash., Seattle** — HOSPITAL — Swedish Hospital Assn., N. A. Johanson, dir. Bd. Erustees, plans (1st unit of 300 beds) concrete addition, Sumit Ave. and Columbia St. $600,000.

**Wash., Seattle** — THEATRE — Greater Theatres Co., 1520 1st St., Jensen & Von Herberg, having plans prepared by B. M. Priteca & F. J. Peters, Pantages Bldg., 100 x 354 ft., Spanish design, concrete, Bway. N. between Harrison and Republican Sts. $500,000.

**Calif., Agnews** — HOSPITAL — State Building Comn., Sacramento, having plans prepared by G. B. McDougall, Forum Bldg., Sacramento two 2 story, rein.-con. patients buildings, at state hospital, here. $150,000.

**Calif., Balboa**—CLUB—Balboa Palisades Club, c/o Rea & Garstang, Trust & Savings Bldg., Los Angeles, archts., having preliminary plans prepared 3 story and basement, 110 x 230 ft., concrete and hollow tile club. $150,000.

**Calif., Berkeley** — THEATRE Beach — Krahn Amusement Co., c/o J. W. Plachek, archt., 2014 Shattuck Ave., having preliminary plans prepared fireproof theatre, College Ave. $150,000-$200,000.

**Calif., Long Beach**—HOTEL—Castilian Hotel Corp., c/o L. Farwell, archt., Laughlin Bldg., Los Angeles, plans rein.-con., Seaside Blvd. $2,500,000.

**Calif., Los Angeles**—APARTMENT—L. Korn, archt., Financial Center Bldg., preparing plans 4 story and basement, 200 room, brick, Gramercy Pl. near 8th St. $150,000 or more. Owner's name withheld.

**Calif., Los Angeles**—APARTMENT and STORE—H. H. Helbush, 2008 West 7th St., plans ultimately 12 story, rein.-con. and steel, on 140 x 240 ft. site, 7th and Parkview Ave. $250,000.

**Calif., Los Angeles**—STORE and HOTEL—Obehorff Bros., having plans prepared by S. C. Lee, Douglas Bldg., 4 story, 100 x 135 ft., brick and terra cotta, 8th St. between Fedora St. and Kenmore Ave. $200,000.

**Calif., Los Angeles**—THEATRE—F. E. Veeler, c/o J. M. Cooper, Marsh-Strong Bldg., archt., having plans prepared 88 x 150 ft., rein.-con., 6th St. and Grand Ave. $500,000.

**Calif., Los Angeles** — THEATRE and STORE—J. Toplitzky, et al., c/o G. A. Lansburgh, Hill St. Bldg., having preliminary plans prepared Class A, theatre and store building, on 195 x 225 ft. site, Wilcox Ave. and Hollywood Blvd.

**Calif., Los Angeles**—THEATRE, etc.—J. M. Cooper, archt., Marsh-Strong Bldg., preparing plans 2 story and basement, 260 x 260 ft., brick and rein.-con., theatre, store and office building, with ice skating rink, Vine St. $350,000. Owner's name withheld.

**Calif., Monterey**—THEATRE—Monterey Theatres Co., c/o Reid Bros., archts., 105 Montgomery St., San Francisco, having plans prepared rein.-con., 2,000 seating capacity, Alvarado St. $150,000. Noted Jan. 1.

**Calif., Oakland**—HOTEL—J. K. Leaming, c/o W. H. Weeks, archt., 1924 Bway., having plans prepared 10 story, 300 room, brick and concrete, 19th and Franklin Sts. $1,500,000.

**Calif., San Bernardino**—THEATRE and STORE—Mayer Picture Finance Corp. of Hollywood, having preliminary plans prepared by C. R. Selkirk, 800 Amer. Bank Bldg., archt., 2 story, 140 x 160 ft. concrete and brick theatre, store, and loft building, 3rd and Arrowhead Sts. $300,000.

**Calif., San Diego**—HOSPITAL, etc.—Bd. Supervs. San Diego Co. election about July 14, $450,000 bonds, enlarging various county buildings, incl. hospitals, detention home, and home for aged. J. B. McLees, co. clk.

**Calif., San Francisco**—APARTMENT—R. C. Kennedy, c/o Quandt Bros., archts., Humboldt Bank Bldg., San Francisco, having plans prepared 12 story and basement, rein.-con., Pacific Ave. To exceed $500,000.

**Calif., San Francisco**—APARTMENT and STORE—G. . olle, 2012 Mission St., having plans prepared by C. A. Meussdorffer, Humbolt Bank Bldg., 4 story and basement, concrete, Mission St. $150,000.

**Calif., San Francisco**—BANK—Hibernian Savings & Loan Society, Jones and Market Sts., had plans prepared by Bakewell & Brown, 251 Kearny St., Class "A" with granite bank. $150,000.

**Calif., San Francisco**—HOTEL—L. W. Huckins, Fort Worth, Tex., et al., having plans prepared by Reid Bros., 105 Montgomery St., 20 story and basement, 650 room, Class A, on 119 x 138 ft. site, Powell and Sutter Sts. $3,000,000.

**Calif., San Francisco**—HOTEL—G. L. Rosebrook, archt., Monadnock Bldg., preparing plans 6 story and basement, steel, Sacramento St. near Van Ness Ave. $150,000. Ellison & Russell, Pacific Bldg., engrs. Owner's name withheld.

**INSTALLATION OF TRACKS—NEW YORK, N. Y.**

Bids were opened (lowest three) by Board of Transportation, 49 Lafayette St., May 22, for installation of tracks, Lenox Ave. and 148th St. Yard, (A) McElroy & Kerwin, Inc. (awarded contract); (B) Fox, Reynolds Co., Inc.; (C) Slattery Engineering & Construction Co., Inc. The unit bids are as follows:

| | A | B | C |
|---|---|---|---|
| 2,500 cu.yd. earth excavation | $3 60 | $3 40 | $4 00 |
| 700 cu.yd. rock excavation | 10 00 | 8 00 | 8 00 |
| 45 cu.yd. concrete masonry (a) 1:2:3 | 85 | 20 00 | 24 00 |
| 560 cu.yd. concrete masonry (b) 1:2½:5 | 16 00 | 14 00 | 18 00 |
| 13 ton furnishing and laying straight cast-iron pipe | 100 00 | 100 00 | 125 00 |
| 2 ton furnishing and laying cast-iron hub and spigot pipe | 105 00 | 100 00 | 150 00 |
| 31 ton furnishing, delivering and erecting structural steel | 180 00 | 150 00 | 250 00 |
| 3 ton steel rods, angles, anchors, steps, etc | 150 00 | 150 00 | 150 00 |
| ½ ton miscellaneous iron castings | 200 00 | 150 00 | 250 00 |
| 820 cu.yd. broken stone (a) 2½ in | 5 60 | 4 50 | 3 75 |
| 185 cu.yd. broken stone (b) 1½ in | 5 60 | 4 50 | 3 75 |
| 4,700 lb. steel checkered plate | 10 | 12 | 10 |
| 1,525 lin.ft. wrought iron electric conduit (a) ¾ in | 25 | 50 | 30 |
| 385 lin.ft. wrought iron electric conduit (b) 1 in | 30 | 60 | 40 |
| 425 lin.ft. wrought iron electric conduit (c) 1½ in | 40 | 80 | 60 |
| 210 lin.ft. wrought iron electric conduit (d) 2 in | 55 | 90 | 1 00 |
| 118 cast-iron outlet boxes | 2 00 | 3 00 | 1 50 |
| 5 cast iron pull boxes (a) 6 x 6 x 4 | 3 75 | 4 00 | 7 00 |
| 4 cast iron pull boxes (b) 8 x 8 x 4 | 4 70 | 10 00 | 10 00 |
| 2 cast iron pull boxes (c) 12 x 12 x 4 | 8 00 | 15 00 | 15 00 |
| 14 (a) bumping posts, type N | 50 00 | 10 00 | 25 00 |
| 260 installation of anti-creepers | 15 | 12 | 10 |
| Installation modified type I track | | | |
| 30 lin.ft. (a) tangent and curves over 2,000 ft. radius | 1 50 | 2 00 | 2 50 |
| 65 lin.ft. (b) curves 701 to 2,000 ft. radius | 2 25 | 4 00 | 2 75 |
| 300 lin.ft. (c) curves under 701 ft. radius | 3 50 | 4 00 | 3 00 |
| Installation modified type VI track | | | |
| 470 lin.ft. (a) tangent and curves over 2,000 ft. radius | 1 50 | 2 00 | 1 75 |
| 470 lin.ft. (b) curves under 701 ft. radius | 3 50 | 3 00 | 2 75 |
| 1,345 lin.ft. installation of pit type track | 1 25 | 1 20 | 2 00 |
| 1 portion installation of special work portion 265, etc | 1,325 00 | 2,100 00 | 1,700 00 |
| 1 portion installation of special work portion 266, etc | 825 00 | 1,200 00 | 1,500 00 |
| 1 portion installation of special work portion 267, etc | 715 00 | 1,600 00 | 2,000 00 |
| 1 portion installation of special work portion 270, etc | 1,420 00 | 2,740 00 | 1,200 00 |
| 1 portion installation of special work portion 271, etc | 1,190 00 | 3,210 00 | 1,500 00 |
| 1 portion installation of special work portion 272, etc | 1,360 00 | 3,270 00 | 1,500 00 |
| 1 portion installation of special work portion 273, etc | 1,255 00 | 2,615 00 | 1,500 00 |
| 1 portion installation of special work portion 274, etc | 1,125 00 | 2,950 00 | 1,500 00 |
| 130 lin.ft. furnishing and installing steel rolling doors, type R | 41 50 | 44 00 | 33 00 |
| 1 reconstruction, etc., of bent No. 34 of paint shop (lump sum) | 9,600 00 | 10,000 00 | 14,000 00 |
| 1,750 lin.ft. removal of existing tracks east of paint shop | 1 00 | 50 | 50 |
| Tearing down old paint and oil house, blacksmith shop, etc. (lump sum) | 1,500 00 | 5,000 00 | 4,900 00 |
| Extended totals | $73,916 | $83,502 | $85,407 |

**Calif., San Francisco** — THEATRE — T and D Junior Circuit, 150 Leavenworth St., having preliminary plans prepared by Miller & Pflueger, Lick Bldg., Class A, Polk St. $150,000.

**Calif., San Rafael** — HOSPITAL — San Rafael Hospital, c/o J. A. Porporato, archt., 619 Washington St., San Francisco, having plans prepared 3 story and basement, fireproof, 4th St. and State Highway. $150,000.

**Calif., Stockton**—BANK—Bank of Italy, Eddy and Powell Sts., San Francisco, having plans prepared by H. A. Minton, Monadnock Bldg., San Francisco, 1 story and basement, brick and terra cotta, Main and Hunter Sts., here. $200,000.

**BIDS DESIRED**

**Mass., Boston**—NURSES HOME—Beth Israel Hospital, 45 Townsend St., Roxbury, taking new bids 4 story and basement, 40 x 127 ft. with 37 x 40 ft. wing, brick and stone, plain foundation, Brookline and Longwood Aves., Back Bay Dist. Former bids rejected. Densmore, LeClear & Robbins, Park Sq. Bldg., Boston, archts. Noted May 14.

**Mass., Wellesley** — HOSPITAL — Convalescent Home for Children—taking bids 2 story and basement, brick hospital. $150,000. S. W. Mead, 804 Barristers Hall, Boston, archt. Noted Jan. 29.

**Conn., Bridgeport**—APARTMENT—Owner, c/o R. Williams, archt., 1838 Whitney St., Hamden, taking bids 6 story, 85 x 800 ft., brick and steel, North End. $1,000,000.

**N. Y., Coney Island** (Brooklyn P. O.)—HOTEL—July 6, by Amer. Hotels Co., 25 West 45th St., New York City, 17 story, brick, steel and stone, plain foundation, Boardwalk and 29th St. Former bids rejected. G. B. Post & Sons, 101 Park Ave., New York City, archts. and engrs. Noted June 18.

**N. Y., Garden City** — APARTMENT — Garden City Apartments, Inc., C. I. McLaine, secy., 19 West 44th St., New York City, taking sub-bids 4 story, brick, Hilton and Franklin Aves., here. $550,000. Schwartz & Gross, 347 5th Ave., New York City, archts.

**N. J., Atlantic City**—THEATRE—Hoffman-Henon Co., archts. and engrs., Finance Bldg., Phila., Pa., taking sub-bids 4 story and basement, 150 x 200 ft., rein.-con., brick and steel, Atlantic and Missouri Aves., for Stanley Co. of America, 1916 Race St., Phila., Pa. $1,000,000.

**N. J., Trenton Junction** (Trenton P. O.)—DORMITORY—July 6, by Bd. Institutions & Agencies, Trenton, 2 story and basement, 97 x 150 ft. dormitory, $165,000; partitions, additions and alterations to other buildings. Total $203,500. Guilbert & Betelle, Commerce Bldg., Newark, archts.

**Pa., Phila.** — GARAGE — June 26, by Stetler & Deysher, archts., Jefferson Bldg., 6 story and basement, 55 x 100 ft., brick and steel, plain foundation, 914 Sansom St., for Irving Hotel, 917 Walnut St.

**Pa., Phila.**—WAREHOUSE—June 27, by J. E Bullock, archt., 34 South 17th St., 3 story and basement, brick and timber 10th and Erie Sts., for Tomlinson Holding Co., c/o architect.

**Md., Baltimore**—EXCHANGE—July 6, by Chesapeake & Potomac Telephone Co., 5 Light St., having plans prepared by McKenzie, Voorhees & Gmelin, Continental Bldg., Wash., D. C., 3 story and basement, 63 x 152 ft., brick and steel, 31st St. and Guilford Ave. $150,000.

**D. C., Wash.**—HOSPITAL—June 26, by Ballinger Co., archts. and engrs., and J. P. Richter, archt., 12th and Chestnut Sts., Phila., taking bids on revised plans, for Sibley Memorial Hospital, Pierce and North Capital Sts. Former bids rejected. Noted May 28.

**Ga., Alto**—HOSPITAL—July 1, by State Bd. Health, Atlanta, brick and concrete tuberculosis hospital, here. $500,000. Daniell & Bentell, Healy Bldg., Atlanta, archts.

**O., Cleveland** — STORE, HOTEL and GARAGE—J. Babin, 307 Williamson Bldg., taking bids 5 story, brick, steel and concrete, 6024 Euclid Ave. $300,000. N Petti, Williamson Bldg., archt.

**O., Youngstown**—DETENTION HOME—June 29, by Bd. Comrs. Mahoning Co., 3 story and basement, 75 x 110 ft., brick, steel and concrete home. $150,000. Stanley & Scheibel, Wick Bldg., archt. Noted Jan. 8.

**Wis., Milwaukee** — APARTMENT — R. Razall, archt., 220 Martin St., taking bids and open same about June 22, 3 story, 52 x 245 ft., brick and concrete, plain foundation, Prospect Ave., for G. W. Adams Building Co., 220 Martin St. $300,000.

**Wis., Racine**—WAREHOUSE—L. Lehle, archt., 3810 Bway., Chicago, Ill., taking bids 4 story and basement, 123 x 125 ft., rein.-con. and brick warehouse, here, for Horlick's Malted Milk Co., Northwestern Ave. To exceed $150,000.

**Kan., Newton** — HOTEL — July 1, by Greenbaum, Hardy & Schumacher, Archts., 216 Scarritt Bldg., Kansas City, Mo., 5 story and basement, 68 x 79 ft., rein.-con., brick and terra cotta. $150,000. Owner's name withheld.

**N. D., Grafton**—DORMITORY—July 1, by State Bd. Administration, E. G. Wanner, secy., Bismarck, 4 story and basement, rein.-con., brick and stone, at Institution for Feebleminded, here. $200,000. J. B. De Remer, Grand Forks, archt.

Buildings—Commercial (Continued)

**Tex., Ft. Worth**—WAREHOUSE—Monnig Dry Goods Co., 1302 Main St. and Sanguinet, Staats & Hedrick, archts., 1st Natl. Bank Bldg., taking bids 6 story and basement, 100 x 200 ft., rein.-con. and brick, plain foundation, Main St. $200,000.

**Tex., San Antonio**—TEMPLE—Temple Beth El, Travis and Jefferson Sts., M. Stern, chn. Building Com., taking bids 2 story and part basement, rein.-con., tile and stucco, Ashby and Belknap Sts. $250,000. Seutter & Simons, Builders Exch. Bldg., archts. Noted June 11.

**Calif., Los Angeles** — THEATRE and STORE—L. L. Bard Theatres, Inc., 100 Pershing Sq. Bldg., taking bids 2 story, 100 x 205 ft., rein.-con., 1617-21 North Vine St. $175,000. L. A. Smith, Lily-Fletcher Bldg., archt. Noted June 11.

**BIDS RECEIVED**

**N. Y., Troy**—HOTEL—Community Hotel Corp., 8 story, 90 x 190 ft., rein.-con., brick and steel, Bway., from E. F. Carlson Co., 244 Main St., Springfield, Mass., $479,750. Noted Jan. 1.

**CONTRACTS AWARDED**

**N. H., Nashua**—STORE and OFFICE—D. F. Shea, 14 High St., 2 story and basement, 75 x 95 ft., to Nashua Building Co., 95 Temple St. Archts. est. $150,000.

**Massachusetts** — TELEPHONE — New England Telegraph & Telephone Co., Milk St., Boston, two 2 story and basement, 60 x 70 ft., brick telephone buildings, one in Needham and other in Wakefield, to Holt-Fairchild Co., 7 Water St., Boston. Archts. est. $150,000. Noted June 11.

**Mass., Andover**—HALL—Town, 2 story and basement, brick, stone and steel, plain foundation, to D. J. Costello, 24 Main St., North Andover. Archts. est. $150,000.

**Mass., Attleboro**—STORE, OFFICE and MANUFACTURING — M. Wunsah, Industrial Trust Bldg., 2 story, brick and limestone, Dunham and Union Sts., to Lull Constr. Co., 308 Main St., Pawtucket, R. I. Archts. est. $150,000.

**Mass., Boston**—GARAGE—North Terminal Corp., Commercial St., 3 story, rein.-con., Commercial St. between Prince and Hull Sts., to Aberthaw Co., 27 School St. Archts. est. $150,000.

**Mass., Dedham**—BANK—Dedham Natl. Bank, E. L. Richardson, pres., will build 2 story and basement, rein.-con., brick and steel, Washington St., by day labor. L. C. Greenleaf, 101 Tremont St., Boston, archt. $150,00. Noted Mar. 19.

**Mass., East Boston** (Boston P. O.) — HOSPITAL—City of Boston, G. R. White Fund Trustees, 2 story and basement, brick and limestone, plain foundation, Paris and Emmons Sts., to A. Piotti & Co., 708 Dudley St., Dorchester, $156,982. Noted June 11.

**R. I., Providence**—HOSPITAL—Miriam Hospital Corp., c/o Kendall, Taylor & Co., archts., 142 Berkley St., Boston, 4 story and basement, brick and stone, plain foundation, Parade and Oak Sts., to E. Turgeon, 86 Weybosset St. Archts. est. $200,000. Noted Apr. 30.

**Conn., Hartford** — APARTMENT — Andover Realty Co., Inc., c/o S. Douglas, 658 Farmington Ave., will build 4 story, 85 x 90 ft., brick, stone and steel, Farmington Ave., by day labor. $200,000. Private plans.

**Conn., New Haven**—BANK—New Haven Savings Bank, 170 Orange St., 3 story and basement, brick, steel and marble addition, Orange and Hope Sts., to C. W. Murdock, Inc., 505 Grand Ave. Archts. est. $150,000 plus. Noted Apr. 23.

**N. Y., Brooklyn**—APARTMENTS—Ocean Ave. Corp., c/o Slee & Bryson, archts. and engrs., 154 Montague St., brick, steel and stone, plain foundation, Ocean Ave., to Coogan & Runkle, 47 West 42nd St., New York City. Archts. est. $375,000 each.

**N. Y., Brooklyn**—Y. M. C. A., brick, steel and stone, plain foundation, Highland Park Branch, to W. Kennedy Constr. Co., 215 Montague St. Archts. est. about $1,000,000.

**N. Y., Wende**—HOSPITAL, etc.—Erie Co., City Hall, Buffalo, constructing hospital and garage buildings, at Erie Co. Penitentiary, here, to Morris & Allen, Jackson Bldg., Buffalo, $306,000.

**N. J., Atlantic City**—HOTEL—Wm. Penn Apartment Corp., c/o Lippincott & Schaef, archts., 11 South 16th St., Phila., Pa., 6 story and basement, 140 x 149 ft., brick and steel, Indiana and Pacific Aves., here, to M. B. Markland, Georgia Ave. Archts. est. $600,000.

**Pa., Altoona** — CITY HALL — City, 3 story and basement, 100 x 120 ft., 13th Ave., general contract, to Columbia Constr. Co., Inc., Altoona Trust Bldg., $246,914. This corrects report in June 18 issue.

**Pa., Erie**—BANK and OFFICE—Dennison & Hirons, archts., 288 Lexington Ave., New York City, 13 story and basement, 82 x 160 ft., brick and steel, plain foundation, State and 10th Sts., to Sheink Constr. Co., Erie, for Erie Trust Co. Archts. est. $1,000,000. Noted May 28.

**Pa., Erie**—Y. W. C. A., 1045 West 9th St., general contract 2 story, 71 x 160 ft., rein.-con., brick and steel, incl. swimming pool, to Upton & Lang, Commerce Bldg. Archts. est. $200,000. Noted June 4.

**Fla., Jacksonville**—STORE and LODGE—R. A. Benjamin, archt., Bisbee Bldg., 2 story and basement, brick and steel, to H. S. Baird, 3612 Oak St., for Elks Club. Archts. est. $150,000. Noted Feb. 12.

**Pa., Kingston**—BANK—Morgan French Co., archts., 19 West 44th St., New York City, 1 story, basement and mezzanine, 56 x 151 ft., brick and steel, plain foundation, here, to H. Nailander, Wilkes-Barre, for Kingston Bank & Trust Co. Archts. est. $150,000. Noted May 7.

**Pa., Lebanon**—OFFICE, etc.—Phila. & Reading R.R., Reading Terminal, Phila., 2 story and basement, 21 x 30 ft., and 30 x 85 ft., brick and steel office building, 30 x 156 ft. freight house, and 25 x 75 ft. shed, both brick and steel, to Rapp Constr. Co., Lebanon.

**La., Baton Rouge**—DORMITORY—Building Com. State University, 3 story, brick dormitory, to Caldwell Bros., 816 Howard Ave., New Orleans, $374,421, paving cloister and walks of university, to Barbay & Haase, City Hall, $7,690.

**O., Cleveland** — WAREHOUSE — G. Worthington Co., J. J. Scullian, secy., 802 St. Calir Ave., 5 story and basement, 44 x 119 ft., brick, steel and concrete, Johnson Ave., to S. W. Emerson Co., 1836 Euclid Ave. Archts. est. $150,000. Noted June 18.

**O., Lancaster**—BANK—Lancaster Savings & Trust Co., 1 story, 50 x 200 ft., brick, steel and concrete addition, to Hunkin-Conkey Constr. Co., Hunkin-Conkey Bldg. Archts. est. $200,000.

**Mich., Dearborn** — TEMPLE — Masonic Temple Assn., 3 story and basement, 60 x 110 ft., rein.-con., brick and steel, plain foundation, to Malow-Barry Co., 2631 Woodward Ave., Detroit. Archts. est. $150,000.

**Mich., Detroit**—OFFICE—G. D. Mason & Co., archts., 80 Griswold St., 10 story and basement, 45 x 110 ft., brick, terra cotta and stone, Bway. near Gratiot Ave., to Everett Winters Co., 1024 Book Bldg., for Scherer Estate, c/o architects. $450,000. Noted May 7.

**Mich., Detroit**—OFFICE—Book Estate, Book Bldg., Washington Blvd., 35 story and basement, 61 x 105 ft., rein.-con., brick, stone and steel, Grand River Ave. and Washington Blvd., to Starrett Bros., 160 North La Salle St., Chicago, $3,000,000. Noted Apr. 6.

**Wis., Merrill**—HOSPITAL—Sisters of Holy Cross of Switzerland, M. Prock, pastor, 3 story and basement, 52 x 150 ft., brick and concrete, plain foundation, to Pehrson Bros., 555 Temple St., Minneapolis, Minn. Archts. est. $150,000. Noted May 28.

**Wis., Milwaukee**—THEATRE and BUSINESS—Peacock & Frank, archts., 445 Milwaukee St., 2 story and basement, 72 x 125 ft., rein.-con. and brick, plain foundation, Delaware St., to T. Stark & Co., 130 Muskego Ave., for Badger Building Service, 445 Milwaukee St. Archts. est. $150,000. Noted May 7.

**Wis., Racine**—HOTEL—Racine Hotel Co., 304 Badger Bldg., 7 story and basement, 106 x 144 ft., brick, terra cotta and concrete, plain foundation, 6th and Main Sts., to Raulf Co., 428 Grand Ave., Milwaukee. Archts. est. $1,000,000. Noted May 14.

**Minn., St. Paul** — DORMITORY — Concordia College, Marshall Ave. and Syndicate St., general contract (1st unit) 2 story and basement, 64 x 205 ft., rein.-con. and brick, 269 Syndicate St., to Madsen Constr. Co., Builders Exch., Minneapolis, $112,000.

**Kan., Topeka** — HOSPITAL — Stormont Hospital, 334 Greenwood St., c/o C. A. McGuire, chn., 4 story and basement, 49 x 59 ft., rein.-con., brick and stone, Greenwood St., to Lundgren & Carlson, 204 West 8th St. Archts. est. $150,000.

**Neb., Omaha** — HOSPITAL — Swedish Emmanuel Deaconess Hospital, 34th and Meredith Sts., general contract 4 story and basement, rein.-con., brick and stone, to J. Soderberg, 1818 Harney St., $153,666; plumbing and heating, to J. Anderson, 709 South 24th St., $26,774.

**Mo., Independence**—MEMORIAL—City, general contract 2 story and basement, 81 x 142 ft., brick, steel and stone memorial and community center, to M. T. Colgan, 1702 Overton St. Archts. est. $150,000. Noted Jan. 1.

**Mo., St. Louis**—APARTMENT—G. G. Boland, et al., 5510 Waterman Ave., Hampden Hall, 14 story and basement, rein.-con., brick, stone and terra cotta, McPherson and Newstead Sts., to A. D. Gates Constr Co., Chemical Bldg. Archts. est. $870,000.

**Mo., St. Louis**—APARTMENT—R. F. Britton et al., 110 North 7th St., Graystone Hall, 13 story and basement, rein.-con., brick and stone, Newstead and McPherson Sts., to A. D. Gates Constr. Co., Chemical Bldg. Archts. est. $850,000.

**Mo., St. Louis**—CLUB—Y. M. H. A., 3 story and basement, rein.-con., brick and stone club with swimming pool, gymnasium, auditorium, roof garden, etc., Union and Enright Aves., to Humes-Deal Co., Syndicate Trust Bldg. Engrs. est. $500,000.

**Mo., St. Louis**—HOTEL—M. D. Israel Hotel & Realty Co., c/o Princess Hotel, 5 story and basement, 72 x 200 ft., rein.-con. and brick addition to Princess Hotel, 17th and Chestnut Sts., to Ruckett Constr. Co., 3314 Lemp St. Noted Dec. 11.

**Mo., St. Louis**—Y. M. C. A., c/o B. W. Moser, 6186 McPherson St., 10 story and basement, 137 x 155 ft., rein.-con., brick, stone and marble, incl. 25 x 75 ft. swimming pool, etc., 16th St. and Locust Blvd., to J. Stewart & Co., Planters Bldg. Archts. est. $1,500,000. Noted Jan. 8.

**Tex., Laredo** — HOTEL — Laredo Hotel Co., 8 story and basement, 126 room, rein.-con., brick, steel and stone, plain foundation, to Walsh & Burney, North Flores St., San Antonio, $236,488.

**Okla., Tulsa** — HOSPITAL — Sisters of Sorrowful Mother, Marshfield, Wis., 6 story and basement, irregular shape, rein.-con., brick and stone, South Utica St., here, to Hutter Constr. Co., 128 Western St., Fond du Lac, Wis., $350,000.

**Colo., Denver** — OFFICE — Tremont Investment Co., c/o G. Meredith Musick, archt., Foster Bldg., 12 story, 125 x 200 ft., 16th and Tremont Sts., to Dutton-Kendall Co., 2161 Bway., $1,650,000.

**Calif., Fruitvale** — STORE and THEATRE—A. A. Cantin, archt., Flatiron Bldg., San Francisco, 1 story, 100 x 190 ft., Class A, to Lawton & Vezey, 354 Hobart St., Oakland, $155,000. Owner's name withheld. Noted May 28.

**Calif., Long Beach** — HOTEL — F. B. Dunn, 2315 East 7th St., had preliminary plans prepared by Walker & Eisen, 756 South Spring St., Los Angeles, 12 story, 125 x 232 ft., terra cotta and pressed brick, Ocean Ave., from Locus St., to Collins Way. $1,600,000.

**Calif., Los Angeles**—THEATRE, STORE and OFFICE — Mutual Theatre Building Co., 2 story and basement, 90 x 150 ft., rein.-con., 6th St., to J. M. Cooper, Marsh-Strong Bldg., $300,000 cost plus percentage basis.

**Calif., Pasadena**—CLUB—Y. M. C. A. of Pasadena, 4 story and basement club, incl. swimming pool, Pasadena St., to W. C. Crowell, Security Bldg., $260,000. Noted Jan. 29.

**Calif., San Francisco**—THEATRE—B. Getz & Co., DeYoung Bldg., rein.-con., 1,400 seating capacity, West Portal Ave., to A. Johnson, 74 New Montgomery St., San Francisco, $150,000.

## Buildings—Educational, Religious

**PROPOSED WORK**

**Me., Bangor** — SCHOOL — City, A. B. Garcelon, supt. schools, having plans prepared by C. P. Crowell & W. S. Lancaster, 27 State St., 2 story and basement, 64 x 208 ft. with 64 x 80 ft. wing, brick and stone, plain foundation, Bway. $250,000. A. S. Kellogg, 89 Franklin St., Boston, Mass., engr.

**Me., Milford** — HIGH SCHOOL — Town, Superintendent Schools, having plans prepared by Bunker & Savage, Augusta Trust Bldg., Augusta, 2 story and basement, brick and stone high school. $150,000.

**Mass., Andover**—AUDITORIUM—Phillip Andover Academy, having plans prepared by C. A. Platt, 101 Park Ave., New York City, new auditorium, on campus. To exceed $150,000.

**Mass., Boston**—SCHOOLS—School House Dept., T. P. Glynn, chn., having sketches made by Fay, Spofford & Thorndike, 200 Devonshire St., 2 story, brick elementary school, Bennet Dist., Brighton, $150,000; by J. A. Schwoinforth, 53 State St., high school

Buildings—Educational, Religious (Cont.)

(Practical Arts School) addition, Dearborn Dist., Roxbury, $300,000; by Mulhall & Holmes, 33 Newbury St., Charles Louge School addition, Tileston Dist., Dorchester, $150,000; by J. M. Gray, 175 High St., elementary school, Henry Grew Dist., Hyde Park, $180,000; by J. M. Gray, 88 Tremont St., high school, Henry Grew Dist., Hyde Park, $1,562,000.

**Mass., Deerfield** — SCHOOLS — Deerfield Academy, C. T. Plunkett, chn., having sketches made by W. L. Walker, 103 Park Ave., New York City, group of school buildings. $500,000. Noted Aug. 7.

**Mass., Foxboro** — HIGH SCHOOL — Town, M. E. Hall, secy. comn., having sketches made by C. R. Greco, 11 Beacon St., Boston, 2 story and basement, brick high school. $175,000. Noted Mar. 12.

**Mass., Saugus** — CHURCH — St. John's Episcopal Church having plans prepared by C. C. Coveney, 184 Boylston St., Boston, 2 story and basement, rein.-con. and brick church. $150,000.

**Mass., Somerville** (br. of Boston) — SCHOOL — Church of St. Catherine of Genoa, Spring Hill, plans parochial school, Summer and Belmont Sts. $150,000. Engineer and architect not selected.

**R. I., Providence** — SCHOOL — Rhode Island College, c/o W. R. Walker & Son, archts., 49 Weybosset St., having plans prepared 3 story, 60 x 200 ft., brick and terra cotta, plain foundation, Gaspee St. $650,000.

**Conn., Middletown** — LIBRARY and LABORATORY — Wesleyan College, J. H. McConaughty, pres., having plans prepared by McKim, Meade & White, 101 Park Ave., New York City, 3 story, 40 x 165 ft. library, and 2 story, 35 x 125 ft. laboratory, both brick and limestone. $300,000. Noted June 18.

**N. J., Merchantville** (Ind. br. of Camden) — SCHOOL — Pensauken Twp. Bd. Educ. plans 2 new schools. $650,000. G. H. Carson, clk.

**N. J., Trenton**—CHURCH—Har Sinai Congregation, Front and Stockton Sts., plans church. $200,000. S. R. Block, Mechanic Bldg., chn. Engineer and architect not selected.

**Pa., Elizabethtown**—SCHOOL—Masons of Pennsylvania having plans prepared by E. A. Wightman, Bankers Trust Bldg., Phila., Thomas Rankin Patton Memorial Industrial School for Boys, incl. work shops, machine shops, gymnasium, etc., on Masonic Home grounds.

**Pa., Leetsdale** — HIGH SCHOOL — Bd. Educ. having plans prepared by W. G. Eckles Co., New Castle, 2 story and basement, 120 x 140 ft., brick, tile and steel, Beaver St. $150,000.

**Pa., Phila.**—CHEMISTRY—University of Pennsylvania, 34th and Spruce Sts., plans chemistry on campus. $1,000,000. Stewardson & Page, 315 South 15th St., archts.

**Pa., Phila.**—LIBRARY—City having revised plans prepared by H. Trumbauer, Land Title Bldg., library, 19th, 20th, Vine and Wood Sts. Former bids rejected. Noted June 18.

**Pa., Phila.**—SCHOOL and AUDITORIUM —St. Agnes Roman Catholic Church, c/o J. S. York, pastor, 319 Brown St., having plans prepared by P. F. Getz, Victory Bldg., 2 story and basement, 57 x 102 ft., stone, plain foundation, Orianna and Brown Sts.

**Pa., Westmont** (mail Johnstown) — CHURCH, etc.—Vine St. Presbyterian Congregation having plans prepared by A. G. Lamont, 156 5th Ave., New York City, 2 story and basement, 49 x 72 ft., stone church and Sunday school. $150,000.

**N. C., Greenville** — COLLEGE — State Building Comn., Raleigh, plans steel, concrete and limestone campus building, at Teachers College, here. $300,000. H. A. Underwood Co., Commercial Bank Bldg., Raleigh, archt.

**N. C., Kinston**—HIGH SCHOOL—City plans new high school, 500 seating capacity. $225,000.

**N. C., Raleigh** — CHURCH — Christian Disciples Church plans stone church and Sunday school, Hillsboro St. $200,000. G. F. Cuthrell, pastor.

**Fla., Ft. Myers**—HOTEL and OFFICE—Bway. Building Corp., G. Sims, pres., having plans prepared by B. S. Martin, Ft. Myers, and M. L. Elliott, Citizens Bank Bldg., Tampa, 10 story and basement, Bway. and 1st St. $500,000.

**Fla., Sarasota**—HOTEL—F. W. Lytton, c/o Hotel Lucille, St. Petersburg, having preliminary plans prepared by Clas, Shepherd & Clas, 445 Milwaukee St., Milwaukee, Wis., 7 story and basement, brick and concrete hotel. $200,000.

**Tenn., Harrogate**—ADMINISTRATION —Lincoln Memorial University plans Citizenship Hall. $200,000 funds raised. Noted Mar. 19.

**Tenn., Jamestown**—COLLEGE—Fentress Co. and State Building Comn., plan Alvin York Agricultural College, here. $150,000. State appropriated $50,000 toward cost. County and private subscription the balance.

**O., Berea**—HIGH SCHOOL—Bd. Educ., L. A. Fowles, clk., having plans prepared by Fulton & Taylor, 8120 Euclid Ave., Cleveland, 3 story, brick, steel and concrete high school. $300,000. Noted Aug. 28.

**O., Cleveland** — COMMERCIAL and APARTMENT—M. Lieber & H. Freyman, 2552 Superior Ave., had plans prepared by Morris & Weinberg, 3608 Euclid Ave., 3 story and basement, 50 x 108 ft., brick and timber, 14626 Lake Shore Blvd. $150,000.

**O., Cleveland** — WAREHOUSE — G. Worthington Co., 802 St. Clair Ave., had plans prepared by Fulton & Taylor, 8129 Euclid Ave., 5 story and basement, 44 x 119 ft., brick and steel, Johnson Ave. $150,000.

**Mich., Ann Arbor**—CAMPANILE—University Alumna Assn. having plans prepared by E. Saarinen, University of Michigan, Marion Leroy Burton Memorial Campanile to include chimes, 200 ft. high, rein.-con., brick and stone, on campus. $200,000.

**Mich., Detroit** — CHURCH, etc. — West Grand Blvd. Methodist Episcopal Church, R. H. Bready, pastor, 1955 Lamothe Ave., having plans prepared 2 story and basement church, 4 story community building and gymnasium, and 9 story and basement apartment, rein.-con., brick and steel, West Grand Blvd. and 12th St. $850,000. Engineer and architects names withheld.

**Mich., Detroit**—CHURCH and SCHOOL —Dominican Sisters, c/o P. R. Rossello, archt., 406 Congress Bldg., plans 2 story, 120 x 230 ft. church, and 3 story, 108 x 130 ft., school, both rein.-con. and brick, Van Dyke Ave. $800,000.

**Ill., Vandalia** — HIGH SCHOOL — Bd. Educ. having preliminary plans prepared 3 story, rein.-con., brick and stone high school. $175,000. Engineer and architect not announced.

**Wis., Madison** — HALL — Bd. Regents University of Wisconsin, J. S. Phillips, bus. mgr., plans rein.-con., brick and steel addition to Main Hall, plain foundation, here. $250,000. Engineer and architect not selected.

**Wis., Oshkosh**—VOCATIONAL SCHOOL, etc.—Bd. Educ. takes bids in July, 3 story, 92 x 240 ft., brick and stone vocational school and 1 story wing for auditorium and gymnasium, plain foundation. $250,000. Auler & Jensen, F. R. A. Bldg., archts.

**Kan., Dodge City** — AUDITORIUM — Amer. Legion, C. Gould, Dodge City, commander, plans auditorium. $200,000.

**Kan., Wichita** — CHURCH — St. James Episcopal Congregation having plans prepared by Schmidt, Boucher & Overend, 4th Natl. Bank Bldg., Wichita, 2 story and basement, 108 x 119 ft., rein.-con., steel and stone church. $160,000.

**Neb., Omaha** — HIGH SCHOOL — Bd. Educ. having plans prepared by J. and A. McDonald, Standard Oil Bldg., 2 story and basement, fireproof high school. $500,000.

**Neb., Omaha**—SCHOOLS—Bd. Educ. having plans prepared by F. S. Stott, 216 Kennedy Bldg., Saratoga Grade School, 2 story and basement, Meredith St., $190,000; by F. A. Henninger, 604 Securities Bldg., Jackson Grade School, 2 story and basement, 33rd and Leavenworth Sts., $190,000; by T. R. Kimball, 836 World Herald Bldg., Beals Grade School, Center St., $125,000; by N. R. Grigham, 607 Keeline Bldg., Munroe School, $65,000; and by C. W. Steinbaugh, 662 Brandeis Theater Bldg., Washington School, $65,000, all fireproof construction.

**Tex., San Antonio**—HIGH SCHOOL—Election July 16th, $300,000 bonds, Junior High School, 2 story and part basement, rein.-con., brick and stone, plain foundation, Yorkshire St. and Berkshire Ave. Phelps & DeWees, Gunter Bldg., archts. Noted May 21.

**Nev., Reno** — EXPOSITION — State Building Comn., Carson City, had plans prepared by F. J. De Longchamps, Gazette Bldg., 2 story, brick or concrete exposition building, exposition grounds, here. $175,000. Noted

**Wash., Seattle** — AUDITORIUM — City Council having preliminary plans prepared by Schack, Young & Meyers, Central Bldg., civic auditorium, 3rd and 4th Aves., Harrison and Mercer Sts. $1,000,000. Appropriated $151,000 to purchase site for same.

**Wash., Seattle** — CHURCH — Schack, Young & Meyers, archts., Central Bldg., take bids about July 6, 1 story and basement, 120 x 120 ft., brick and cast stone church and auditorium, 550 seating capacity, 12 North East and East 42nd Sts., for University Baptist Church. $150,000.

**Calif., Los Angeles**—LIBRARIES—Voted $500,000 bonds to purchase sites and construct branch libraries.

**Calif., Oakland** — FACULTY — Redemptorist Order of Catholic Priests, c/o W. Mooser & Son, archts., Nevada Bank Bldg., San Francisco, having preliminary plans prepared (1st unit) 3 or 4 story, brick, concrete and steel, 82nd Ave. $150,000.

**Calif., Oakland**—SCHOOL—City having plans prepared by C. W. McCall, 1404 Franklin St., 2 story, timber, rein.-con. and hollow tile, 81st Ave. and Olive St. $150,000.

**Calif., Redwood City** — CHURCH — St. Peter's Episcopal Church, having preliminary plans prepared by Norberg & Norberg, 593 Market St., San Francisco, rein.-con., Brewster and Clinton Aves. $150,000 or more.

**Ont., Dunnville** — HIGH SCHOOL — Bd. Educ. having plans prepared by Burden & Gouinlock, 101 King St. W., Toronto, 2 story and basement, 8 or 10 room, rein.-con., brick and steel addition, plain foundation. $150,000.

**Ont., Pembroke**—HIGH SCHOOL—Bd. Educ. having plans prepared by Craig & Madill, 96 Bloor St. W., Toronto, 2 story and basement, 10 room, rein.-con., brick and steel, plain foundation. $175,000.

**Ont., Peterboro** — COLLEGIATE — Bd. Educ. having plans prepared by W. and W. R. L. Blackwell, Canadian Bank of Commerce Bldg., 2 or 3 story and basement, 20 room, rein.-con., brick and steel addition, plain foundation. $300,000.

### BIDS DESIRED

**Me., Brewer** — SCHOOL — City, H. R. Houston, supt. schools, taking bids on revised plans 2 story and basement, 96 x 162 ft., rein.-con., brick and stone, plain foundation, Center and Somerset Sts. $170,000. Butterfield Guertin Co., 801 Beach St., Manchester, N. H., archts. Noted June 11.

**Me., Milford**—SCHOOL—Town, Superintendent Schools, taking bids 2 story and basement, 56 x 140 ft., brick and timber school. $150,000. Bunker & Savage, Augusta Trust Bldg., Augusta, archts. Noted June 25.

**Mass., Boston**—CHAPEL—St. Elizabeths Hospital, 736 Cambridge St., Brighton, taking plans 1 story, 50 x 125 ft., rein.-con., brick and stucco, plain foundation. $150,000. E. T. P. Graham, Newbury St., Boston, archt.

**Mass., Fitchburg**—CHURCH—Immaculate Conception Church, taking bids, 1 story, brick and stone church. $150,000. O. A. Nault, 48 Hamilton St., Worcester, archt. Noted Jan. 15.

**Mass., Quincy** (Boston P. O.)—PARISH HOUSE—Christ Church taking bids 2 story and basement, 40 x 140 ft., granite and terra cotta, Quincy Ave. and Elm St. $150,000. G. W. Chickering, 162 Newbury St., Boston, archt. Noted Jan. 29.

**Mass., Worcester**—SCHOOL—Pub. Building Dept., City Hall, taking bids 2 story and basement, brick and steel addition, plain foundation, Elizabeth St. $150,000. J. Rustigian, 405 Main St., archt. Noted Apr. 2.

**R. I., Lincoln**—ACADEMY—Hope Riding School, 607 Smithfield Ave., Pawtucket, taking bids 1 story, 150 x 200 ft., brick and steel academy. $150,000. E. E. Cull, 17 Exchange St., Providence, archt.

**Conn., Bridgeport** — SCHOOL and COMMUNITY HOUSE — St. Stephens Roman Catholic Church, Wordin Ave., taking bids 2 story and basement, 115 x 120 ft., brick and steel, Wordin and St. Stephens Aves. $150,000. J. A. Jackson, 185 Church St., New Haven, archt. Noted May 28.

**N. Y., Buffalo**—HIGH SCHOOL—July 16, by Bd. Educ., 900 Genesee Bldg., 3 story, rein.-con., brick and stone, Northampton St. $800,000. F. J. Kidd, 524 Franklin St., archt.

**N. Y., Rosedale** (mail Jamaica) — SCHOOL—July 1, by W. H. Gompert, Supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, constructing 38, 241st St. from 135th and 136th Aves., here, for Bds. Educ., 500 Park Ave., New York City.

**Pa., Indiana**—CHURCH—United Presbyterian Congregation, 645 School St., and G. E. Savage, archt., Witherspoon Bldg., Phila., taking bids 1 and 2 story and basement, stone, Church St. $150,000. Noted June 4.

**Pa., Lancaster** — AUDITORIUM — June 26, by Day & Klauder, archts., Franklin

Buildings—Educational, Religious (Cont.)

Bank Bldg., Phila., Hensel Auditorium, 1 story, basement and gallery, 51 x 148 ft., brick, plain foundation, on campus, here, for Franklin & Marshall College. $175,000.

**O., Lorain** — CHURCH and SUNDAY SCHOOL—June 30, by Nicklas & Roderick, archts., 1227 Prospect Ave., Cleveland, 1 and 2 story, 100 x 135 ft., brick, steel and stone church and Sunday school, for First Methodist Episcopal Church, c/o C. B. Hess, pastor. $160,000. Noted Jan. 29.

**O., Toronto**—HIGH SCHOOL—June 30, by Bd. Educ., J. M. Anderson, Pres., fireproof high school, River Ave., Myers and 3rd Sts. Peterson & Clarke, Steubenville, archts.

**Ill., Murphysboro**—HIGH SCHOOL—July 6, by Bd. Educ. High School Dist. 100, Jackson Co., A. Stoelzle, secy., 2 story and basement, 80 x 115 ft., rein.-con., brick and stone, also repairing auditorium and gymnasium, etc. $150,000. R. Z. Gill, 1328½ Walnut St., archt. Noted Apr. 16.

**Minn., Minneapolis**—SCHOOL—July 2, by St. Helena Roman Catholic Parish, O. J. Rowan, pastor, 4320 33rd Ave. S., 2 story and basement, brick and stone, 33rd Ave. S. and 43rd St. $175,000. Noted Apr. 9.

**Kan., Atchison**—SCHOOL—July 1, by Bd. Educ., c/o A. Weinmann, clk., Franklin Grade School, 2 story, 88 x 110 ft., rein.-con., brick and stone. $150,000. W. H. Sayler & Co., 309 Mutual Bldg., Kansas City, Mo., archts. Noted June 11.

**Mo., St. Louis**—HIGH SCHOOL—July 8, by Educ., 911 Locust St., 3 story and basement, 269 x 368 ft., rein.-con., brick and stone, Market, Laclede, Cardinal and Garrison Sts. $875,000. R. M. Milligan, c/o owner, archt. and engr. Noted Apr. 2.

**BIDS RECEIVED**

**N. Y., St. George**—SCHOOL—W. H. Gompert, supt. school buildings, Flatbush Ave. extension and Concord St., Brooklyn, June 18, general contract constructing P. S. 42, Augusta Ave., here, for Bd. Educ., 500 Park Ave., New York City, from Staten Island Constr. Co., 206 Bay St., Tompkinsville, $237,992; heating, from Clermont Heating Co., 480 Clermont Ave., Brooklyn, $30,170.

**CONTRACTS AWARDED**

**Mass., Dalton**—HIGH SCHOOL—Town, E. H. Pierce, chn. com., 2 story and basement, 60 x 170 ft., brick, to D. H. Pike Co., 30 Eagle St Pittsfield. Archts. est. $150,000. Noted June 11.

**Mass., Northampton** — SCHOOL — City, Superintendent Schools, 2 story and basement, brick, to E. E. Burns, Northampton. Archts. est. $150,000-$200,000. Noted Feb. 5.

**Mass., Southboro**—HALL—Trustees Fay School, 2 story and basement, 100 x 100 ft., brick, plain foundation, to H. P. Cummings Constr. Co., 14 Prospect St., Ware. Archts. est. $150,000.

**Mass., Weston**—CHAPEL—Scholasticate Society of Jesus, J. P. O'Gorman, pres., 1 and 2 story, brick and stone chapel and rotunda, plain foundation, Concord Rd., to J. P. Keating, 80 Boylston St., Boston. Archts. est. $1,000,000. Noted May 28.

**Mass., Worcester**—CHURCH—St. Peter's Roman Catholic Church, Main St., Springfield, 1 story, brick, to J. M. and C. J. Buckley Co., 164 Federal St., Boston. Archts. est. $150,000.

**Mass., Worcester**—SCHOOL—City, G. C. Halcott, supt. buildings, 2 story, brick, Pleasant St., to C. A. and A. N. Booth, 394 May St. Archts. est. $150,000.

**R. I., Pawtucket**—CHURCH—St. Luke's Episcopal Church, Weeden Ave., 1 story and basement, rein.-con. and stone, to Wilmarth & McKillop, Freeman St. Archts. est. $150,000.

**R. I., Westerly**—SCHOOL—Immaculate Conception Parish, F. Vincent, pastor, 2 story and basement, 100 x 105 ft., brick and stone, plain foundation, to J. A. St. Germain, 960 Bank St., New London, Conn. Archts. est. $175,000. Noted May 28.

**Conn., Southington** (Hartford P. O.)—SCHOOL—Bd. Educ., 2 story and basement, 16 room brick, to C. F. Wooding Co., Wallace Ave., Wallingford. Archts. est. $150,000. Noted June 4.

**N. Y., Jamaica** — SCHOOL — Bd. Educ., 500 Park Ave., New York City, constructing P. S. 131, 172nd St., here, to Willetts Constr. Co., 280 Madison Ave., New York City, $223,171. Noted June 11.

**N. J., Swedesboro**—CHURCH—St. Joseph Roman Catholic Church, 1 story, basement and gallery, 52 x 97 ft., brick and steel, plain foundation, to Harley Bryan Co., 117 South 20th St., Phila., Pa. Archts. est. $150,000.

**Pa., Phila.**—SCHOOL—P. S. Monaghan, archt., 1713 Sansom St., 3 story and basement, 63 x 143 ft., stone, plain foundation, 5th and Spencer Sts., to D. W. O'Dea, Greene and Logan Sts. for St. Helena Roman Catholic Church. $190,000. Noted June 11.

**Pa., Pittsburgh**—CHURCH—E. Fisher Wood & Co., archts., Oliver Ave., general contract 3 story and basement, 70 x 110 ft., stone veneer, Smithfield St. and Strawberry Way, to S. M. Siesel Co., Forbes and Atwood Sts., for German Evangelical Protestant Church, Smithfield St. Archts. est. $600,000. Noted Jan. 8.

**Pa., Pittsburgh**—SCHOOL and CHAPEL—Church of Nativity, Franklin Rd., general contract 3 story and basement, 55 x 100 ft., brick on hollow tile, Franklin Rd., to E. A. Wehr, Hiland Bldg. Archts. est. $150,000. Noted Mar. 26.

**Pa., Reading** — HIGH SCHOOL — Bd. Educ., and Superintendent of Buildings, 3 story and basement, 152 x 360 ft., brick and steel, plain foundation, 13th Oley and Palm Sts., to M. Melody & Son, 1322 Race St., $1,026,000; electrical work, to C. McCaul Co., 1713 Sansom St., Phila., $45,900; plumbing, to Herre Bros., 7th and Emerald Sts., Harrisburg, $61,409; heating and ventilating, to N. Connelly, 1404 North 18th St., Phila., $146,446. Noted June 4.

**La., Shreveport**—CHURCH—E. F. Neild, archt., Merchants Bldg., 2 story, 120 x 180 ft., concrete, brick and stone, Jordan St., to Garson Bros., Shreveport. Noted June 18.

**Mich., Ironwood**—CHURCH—E. Brielmaier & Sons, archts., 432 Bway., Milwaukee, Wis., 2 story, 66 x 130 ft., concrete, brick and stone, plain foundation, to Tomlinson & Egan, 322 2nd Ave. E., Ashland, Wis., for St. Ambrose Congregation. Archts. est. $150,000.

**Mich., Springwells** — SCHOOL — Bd. Educ., 2 story and basement, 20 room, rein.-con., brick and steel, Lois Ave., to F. H. Goddard, 2130 Franklin St., Detroit. Engrs. est. $250,000.

**Mo., St. Louis**—SCHOOL—St. Teresa's Catholic Parish, c/o J. P. Newman, pastor, general contract 3 story and basement, 80 x 200 ft., rein.-con., brick and stone, Grand Blvd. near North Market St., to Duffner & Stecker Constr. Co., 119 North 7th St.

**Ark., Little Rock**—SCHOOL—Bd. Educ., general contract Pulaski Heights Ward School, 3 story, rein.-con., brick and stone, to Stewart & McGehee, Kahn Bldg. Noted June 11.

**Colo., Fort Collins**—GYMNASIUM, etc.—State Agricultural College, 100 x 160 ft. gymnasium, 100 x 220 ft. field house, 36 x 90 ft. swimming pool, and 60 x 113 ft. administration and locker building, brick and steel, general contract, to C. E. Walker Constr. Co., 800 14th St., Denver, $190,395; plumbing and heating, to City Plumbing & Heating Co., Boulder, $28,489.

**Calif., Los Angeles** — SYNAGOGUE — Sinai Congregation, M. Winkler, rabbi, superstructure 3 story and basement, 120 x 150 ft., brick, 4th St. and New Hampshire Ave., to L. R. Armstrong, 144 Glendale Blvd., $250,000.

**Calif., San Francisco**—SCHOOL—City and San Francisco Co., general contract Douglas-Everett School, 17th, Sanchez, 16th and Dehhon Sts., to Barrett & Hilp, 918 Harrison St., $241,548. Noted June 11.

## Federal Government Work

**PROPOSED WORK**

**D. C., Wash.**—Hospital—U. S. Veterans Bureau, Room 791 Arlington Bldg., plans addition to Walter Reed Hospital. $900,000.

**BIDS DESIRED**

**D. C., Wash.**—Pipe, etc.—July 1, at office A. L. Flint, genl. purch. officer, Panama Canal, soil and sewer pipe, pipe fittings, etc.

**W. Va., Clarksburg**—Remodeling—July 7, by Treas. Dept., at office Supervising Archt., Wash., D. C. remodeling post office, here.

**N. C., Otcen**—Hospital—July 7, by U. S. Veterans Bureau, Wash., D. C., kitchen at hospital, here.

**Miss., Vicksburg**—Levees—June 29, at office Third Mississippi River Dist., Box 404, about 360,000 cu.yd. levee work.

**La., New Orleans**—Earthwork—July 10, by U. S. Engineer Office, War Dept., Wash., D. C., 33,000 cu.yd. earthwork at Spur Levee, 2 mi. north of Natchey, Miss.

**Tenn., Memphis**—Embankment—July 15, by U. S. Engineer Office, War Dept., Wash., D. C., 45,000 cu.yd. earth embankment in Lower St. Francis Levee Dist., here.

**Ill., Mount Vernon**—Heating System—June 29, by Treas. Dept., at Office Supervising Archt., Wash., D. C., repairs to heating system at port office, here.

**S. D., Hot Springs**—Hospital—Aug. 4, by U. S. Veterans Bureau, Room 791, Arlington Bldg., Wash., D. C., hospital buildings and utilities, etc., here. F. T. Hines, dir.; adv. E. N.-R. June 25.

**Arizona** — Road — June 30, by E. D. Wheeler, dist. engr. Bureau Pub. Rds., 242 West Washington St., Phoenix, improving Flagstaff-Angel Natl. Forest Rd., Coconino Co.

**BIDS RECEIVED**

**N. Y., Brooklyn**—Paving—Spec. 5115—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete paving, etc., at Naval Hospital, here, from Estate of J. Bauer, 388 Wallabout St., (1) $16,769 (2) $400. Noted June 4.

**N. J., Lakehurst**—Garage—Spec. 5124—Bureau Yards & Docks, Navy Dept., Wash., D. C., reconstructing steel garage, here, from Maryland Metal Building Co., Race St., Baltimore, Md., $8,885. Noted June 11.

**Pa., Phila.**—Paving—Spec. 5109—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete paving at Naval Home, here, from Curtis Bros., (1) $4,834. Noted June 4.

**Pa., Phila.**—Remodeling—Spec. 5123—Bureau Yards & Docks, Navy Dept., Wash., D. C., remodeling building, here, from W. Mayor Co., 7 South Dearborn St., Chicago, Ill., (1) $29,274 (2) $4,000. Noted June 4.

**Md., Annapolis**—Waterworks—Spec. 5119—Bureau Yards & Docks, Navy Dept., Wash., D. C., 80,000 gal. rein.-con. reservoir, piping, etc., here, from McCay & Kirkland, 638 Equitable Bldg., Baltimore, $3,870. Noted June 11.

**D. C., Wash.**—Water System—Spec. 5104—Bureau Yards & Docks, Navy Dept., additions to water supply system at Naval Observatory, from Pittsburg-Des Moines Steel Co., Virginia R.R. and Power Bldg., Richmond, Va., (1) $13,152 (2) add $333. Noted June 4.

**Va., Quantico**—Dredging—Spec. 5125—Bureau Yards & Docks, Navy Dept., Wash., D. C., June 22, dredging at Marine Barracks, here, from McLean Contg. Co., 1415 Fidelity Bldg., Baltimore, Md., $0.489. Noted June 4.

**Va., Quantico** — Coal Bins, etc. — Spec. 5085—Bureau Yards & Docks, Navy Dept., Wash., D. C., June 22, elevated timber coal storage bins, railroad trestles, etc., here, from Cranford Paving Co., 2620 East Northwest St., Wash., D. C., $37,744. Noted June 11.

**S. C., Parris Island**—Boilers—Spec. 5118—Bureau Yards & Docks, Navy Dept., Wash., D. C., installing boilers, etc., at Marine Barracks, here, from Newport Contg. & Eng. Co., Newport News, Va., (1) $29,381 (2) add $4,800. Noted June 4.

**S. C., Paris Island**—Power Plant Equipment—Spec. 5063—Bureau Yards & Docks, Navy Dept., Wash., D. C., power plant equipment at Marine Barracks, here, from Austin Eng. Co., 217 Bway., New York City, $31,718.

**Fla., Pensacola**—Storage—Spec. 5083—Bureau Yards & Docks, Navy Dept., Wash., D. C., June 22, two 99,000 gal. steel tanks, pumphouse, piping, etc., at Naval Air Station, here, from C. H. Turner Co., Pensacola, $27,584. Noted June 11.

**Miss., Holly Springs**—Post Office—Treas. Dept. Office Supervising Archt., Wash., D. C., post office, here, from F. R. Comb, 2113 Chicago Ave., Minneapolis, Minn., $36,400. Noted May 28.

**La., New Orleans** — Quarters — Treas. Dept. at office Supervising Archt., Wash., D. C., quarters and isolation building, at Marine Hospital, here, from H. W. Bond & Bro., New Orleans, $6,905.

**Wis., Madison**—City, high service reservoir for additional water supply, from O'Dea & Schafer, Genl. Del., $123,000. Noted Mar. 5.

**Wis., Milwaukee**—Dept. Pub. Wks., June 8, 9,814 ft. 6 in., 2,465 ft. 8 in., and 2,316 ft. 12 in. c.i. mains (city to furnish pipe), in various streets, from H. O. Schaefer & Sons, 1149 East Mason St., Green Bay, $13,234. Noted June 4.

**Mont., Missoula**—POST OFFICE—Treas. Dept., Office Supervising Archt., Wash., D. C., extensions to post office, here, from C. H. Elliott, Missoula, $3,557. Noted May 28.

**Okla., Tahlequah**—School—C. H. Bruke, comr. Indian Affairs, Wash., D. C., addition to Sequoyah Orphan Training School, here, from W. L. Garner, Tahlequah, $15,226.

**Colorado**—Roads—Bureau Pub. Rds., 301 Custom House Bldg., Denver, grading 2.92 mi. Independence Pass Natl. Forest Rd., Pitkin Co. and 4.97 mi. Fremont Pass Natl. Forest Rd., Summit Co., from Stamey-Mackey Constr. Co., Colorado Springs, $38,142 and $59,674 respectively: 4.36 mi. Tennessee Pass Natl. Forest Rd., Eagle Co., from San Luis Valley Constr. Co., Sanford, $42,849.

**Ariz., Whipple Barracks** — Cable, etc. — U. S. Veterans Bureau, Wash., D. C., cables and wiring for automatic telephone system, at Hospital 50, here, from Gans Bros., 141 South Main St., Los Angles, Calif., $7,289, installing automatic telephone system, from North Electric Mfg. Co., Galion, O., $8,190, alternate $8,095. Noted May 21.

**Ariz., Whipple Barracks** — Fire Alarm System—U. S. Veterans Bureau, Wash., D. C., fire alarm system at Hospital 50,

Federal Government Work (Continued)

here, from D. C. Barnett, St. Louis, Mo., $7,050. Noted May 21.

**California**—Roads—Bureau Pub. Rds., 9 Main St., San Francisco, crushed rock surfacing 6.86 mi. Donner Pass and Donner Pass Extensions, Tahoe Natl. Forest, Placer and Nevada Counties, from P. L. Burr, 549 Market St., San Francisco, $63,927.

### CONTRACTS AWARDED

**Me., Ellsworth**—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., post office and custom house, retaining wall, etc., here, to Green & Wilson, 74 Main St., Waterville, $10,790. Noted June 18.

**Mass., Amherst** — Post Office — Treas. Dept. at office Supervising Archt., Wash., D. C., constructing post office, here, to A. M. Lundberg, Federal Reserve Bank Bldg., St. Louis, Mo., $61,770. Noted Apr. 23.

**N. Y., Brooklyn**—Paving—Spec. 5115—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete paving, etc. at Naval Hospital, here, to Estate of J. **Bauer**, 388 Wallabout St., $16,769 (90 days). Noted June 4.

**N. J., Vineland**—POST OFFICE—Treas. Dept., Office Supervising Archt., Wash., D. C., 60 x 68 ft. post office, here, to W. L. Morrison Constr. Co., $51,600. Noted May 21.

**Pa., Phila.**—Remodeling—Spec. 5123—Bureau Yards & Docks Navy Dept., Wash., D. C., remodeling Building 133, here, to Newport Contrg. & Eng. Co., Newport News, Va., $29,381 (150 days). Noted June 4.

**Pa., Pittsburgh** — Remodeling — Treas. Dept. Wash., D. C., remodeling post office, here to Unkefer Bros. Constr. Co., Box 220, Cleveland, O., $5,126. Noted June 18.

**Del., Wilmington**—Bridge—U. S. Engineer Office, War Dept., Wash., D. C., substructure for new cut-off bridge, Chesapeake and Delaware Canal, to Dravo Contg. Co., Frick Bldg., Pittsburgh, Pa., $103,500.

**D. C., Wash.**—Entrance, etc.—Office Pub. Buildings & Grounds, constructing ornamental entrance and 375 ft. wall at Meridian Hill Park, to C. Tompkins, 1612 Park Rd., $21,110 and $17,236 respectively.

**S. C., Parris Island** — Monument — Spec. 5114—Bureau Yards & Docks, Navy Dept., Wash., D. C., monument at Fort Charles, here, to McNeel Marble Co., Marietta, Ga., $5,350 (150 days). Noted June 4.

**Fla., Lake City**—Hospital—U. S. Veterans Bureau, Room 791 Arlington Bldg., Wash., D. C., mess hall, kitchen and garage, at State Hospital 63, here, to B. L. Lucas Co., Raeford, N. C., $103,495. Noted June 4.

**Mich., Camp Custer**—Copper Roofs—U. S. Veterans Bureau, Room 792 Arlington Bldg., Wash., D. C., copper roofs on Hospital, here, to Central Sheet Metal & Roofing Co., Battle Creek, $3,080.

**Tex., Galveston**—Topsoil—U. S. Engineer Office, War Dept., Wash., D. C., 19,000 cu.yd. mainland top soil, here, to W. E. Becker, Houston, $34,770.

**Oklahoma**—Road—G. E. Goodwin, ch. engr. Dept. Interior, Natl. Park Service, improving, widening and surfacing roads of Platt Natl. Park, in Sulphur, to Johnson Bros., Ardmore, $32,000.

**Colorado**—Road—Bureau Pub. Rds., Custom House Bldg., grading 5.18 mi. Sugar Creek-West Creek Natl. Forest Rd., to Shields & Kyle, Pagosa Springs, $43,910; 3.79 mi. Echo Lake-Chicago Creek Project, Clear Creek Co., to Stamey-Mackey Constr. Co., Hutchison, Kan., $61,892.

## Unclassified

### PROPOSED WORK

**Stadium — Buffalo, N. Y.** — Canisus College, Main and Jefferson Sts., plans stadium, Main St. $300,000. Engineer and architect not selected.

**Boardwalk—Seaside Heights, N. J.**—Plans widening boardwalk 20 ft. $52,500. Sherman & Sleeper, 501 Cooper St., Camden, engrs.

**Grade Crossings—Phila., Pa.**—City and Phila. & Reading R.R., Reading Terminal, take bids about Aug. 1, removing grade crossings, Wissahicken, Manayunk section, Phila.-Norristown branch of railroad. $2,900,000. Pub. Wks., Bureau Engineering, engrs.

**Stadium—Phila., Pa.**—Day & Klauder, archts., Franklin Bank Bldg., preparing revised plans rein.-con., double decking present stadium, 33rd and Spruce Sts., for University of Pennsylvania. Former bids rejected. Noted June 11.

**Mooring Mast — Atlanta, Ga.** — Plans mooring mast for dirigibles at flying field. $50,000.

**Sea Wall—Mobile, Ala.**—City Comn. received estimates from Hedrick, Smith & Frost, engrs., Portland, Ore., for 14 ft. revetment and concrete roadway along route of Old Bay Shell Rd. $116,160.

**Swimming Pool, etc.—Joplin, Mo.**—See "Buildings—Commercial."

**Swimming Pool—Kansas City, Mo.**—See "Buildings—Educational, Religious."

**Stadium — St. Louis, Mo.** — Washington University, Forsythe and Skinker Blvd., soon takes bids 2 story and basement, rein.-con., brick and stone athletic field house with running track and courts, etc., 8,000 seating capacity, on campus. $300,000.

**Transmission Line—Oklahoma**—Town of Asher making preliminary plans distribution system in Asher, also and electric transmission line from Asher to Ada. $30,000. Engineer not selected.

**Transmission Line—Oklahoma**—Town of Bessie making preliminary plans step down station and distribution system in Bessie, also and 12 mi. electric transmission line from Bessie to Clinton. $25,000. I. Loewen, mayor. Engineer not announced.

**Power Plant — Enid, Okla.** — Oklahoma **Laundry** Co. making preliminary plans new diesel engine power plant. $30,000. J. Clover, Enid, engr.

**Rock and Gravel Plant — Bakersfield, Calif.**—Bakersfield Rock & Gravel Co., M. C. Macomber, pres., Taft, plans rock and gravel plant, here. $100,000.

**Ice Skating Rink—Los Angeles, Calif.**—See "Buildings—Commercial."

**Athletic Field—San Francisco, Calif.**—City and San Francisco Co. had preliminary plans prepared athletic field for High School of Commerce, Van Ness Ave. $100,000. J. Reid, Jr., city archt.

**Parks—Whittier, Calif.**—Plans election $125,000 bonds, park improvements.

**Power Development—Campbellford, Ont.**—Canadian Paperboard Co., making preliminary plans hydro-electric development in connection with plant, incl. power house, pipe line, turbines, generators, etc. $150,000. Kerry & Chace, Ltd., Confederation Life Bldg., Toronto, engrs.

**Ice Rink—Toronto, Ont.**—Ravina Rink Co., 50 Rowland Ave., having plans prepared 1 and 2 story ice rink, rein.-con., brick and steel, Rowland Ave. $150,000. A. W. Connor & Co., Metropolitan Bldg., engrs.

### BIDS DESIRED

**Pier and Bulkhead — New York, N. Y.** — July 1, by M. Cosgrove, comr. Docks, Pier A, Battery Pl., North River, Manhattan, constructing Pier New 35 and Bulkhead, East River, between Rutgers Slip and Clinton St., East River, Contr. 1848, Manhattan Boro.

**Guard Rail—South Dakota**—June 30, by State Hy. Comn., Pierre, wood, wire link and cable guard rail. $20,000. T. Soleglad, acting highway engr.

**Breakwater and Wharf—Little Judique Ponds, N. S.** — July 3, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., breakwater and wharf, here. $10,800.

**Bank Protection—Baie St. Paul, Que.**—June 30, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., bank protection in River du Gouffre, here. $25,000.

**Wharf—Sorel, Que.**—June 30, by S. E. O'Brien, secy. Dept. Pub. Wks., Ottawa, Ont., reconstructing 287.5 ft. high level wharf, here. $85,000.

**Electric Capstans, etc.—Napier, New Zealand**—Aug. 10, by Harbor Bd., 2 electric capstans, 12 fairleads, and one electric portable crane.

### BIDS RECEIVED

**Subway—New York, N. Y.**—Bd. Transportation, 49 Lafayette St., June 19, constructing Route 78, Sect. 2-A along Central Park West and 8th Ave. from 101st to 111th Sts., from Rosenthal Eng. & Contg. Co., Prospect Ave. and 189th St., $5,123,000. Noted June 16.

**Dock, etc. — Baton Rouge, La.** — Comn. Council, June 11, dock and approaches, from Raymond Concrete Pile Co., Healey Bldg., Atlanta, Ga., $221,000; barge, from Midland Barge Co., Midland, Pa., $64,000; conveyors, from Link Belt Co., New Orleans, La., $39,000. Noted May 21.

**Grandstand — West Allis, Wis.** — J. D. Jones, Madison, comr. Agriculture, Madison, June 9, rein.-con. grandstand addition, at State Fair Park, here, from Dreyer Constr. Co., 1008 6th St., Milwaukee, $100,936. Noted May 28.

**Lighting System—Los Angeles, Calif.**—Ornamental lighting system on Main St. between Florence and Manchester Aves., from Electric Corp., 726 South Olive St., Los Angeles, $34,928.

### CONTRACTS AWARDED

**Heating and Ventilating — Bridgewater, Mass.**—Dept. Educ., State House, Boston, heating and ventilating in Normal and Training Schools, to Hobart & Farrell, 36 Court St., Brockton, $40,000. Noted June 18.

**Electrical and Refrigerating Equipment—New York, N. Y.**—E. J. O'Malley, comr. Pub. Markets, Municipal Bldg., June 16, complete mechanical, electrical and refrigerating equipment for Bronx Municipal Market, Exterior and East 151st Sts., to Shipley Constr. & Supply Co., 42nd St. and 2nd Ave., Brooklyn, (A) $718,950. Noted May 21.

**Station Finish—New York, N. Y.**—Bd. Transportation, 49 Lafayette St., station finish for Main St. station, Route 52, Sect. 3, Flushing Sect., to M. Del Balso, 600 East 221st St., $244,000. Noted June 18.

**Subway—New York, N. Y.**—Bd. Transportation, 49 Lafayette St., constructing Route 78, Sect. 2, under Central Park West from 89th St. to 100th Sts., to T. A. Gillespie Co., 7 Dey St., $3,997,000. Noted June 18.

**Swimming Pool—Erie, Pa.**—See "Buildings—Commercial."

**Dock Extensions, etc.—Tampa, Fla.**—Mallory & Clyde Steamship Co., Mallory Docks, enlarging terminal facilities, incl. extending warehouses, dockage and freight spaces, to G. N. Hassler, Jacksonville, $150,000. Noted Apr. 2.

**Wall—Shreveport, La.**—Rein.-con. retaining wall on Dixie-Overland Blvd., to Phillips & Rudy, Shreveport. Noted June 11.

**Street Lighting System—West Allis, Wis.**—A. Wincher, supt. Bd. Pub. Wks., ornamental street lighting system on Greenfield and National Aves., to Donovan Constr. Co., 417 Commercial Bldg., St. Paul, Minn., $43,700. Noted Apr. 2.

**Swimming Pool—Ft. Dodge, Ia.**—Exposition Park & Amusement Co., general contract 80 x 120 ft., various depths, rein.-con. and brick swimming pool, to M. J. Brosz, 1708 North 5th St., Ft. Dodge. Engrs. est. $25,000.

**Culverts—Guthrie Center, Ia.**—Guthrie Co., 12 rein.-con. box culverts in various parts of county, to H. A. Rhodes Co., Guthrie Center, $28,500.

**Electric Distribution System—Winthrop, Minn.**—A. L. Malm, city clk., electric distribution system, street lighting system, to Hutchinson Electric Co., Hutchinson, $17,500; and pumping equipment, etc., to F. T. Hildred & Co., 108 East 3rd St., St. Paul, approximately $6,000. Noted May 14.

**Stadium—Omaha, Neb.**—Creighton University, 25th and California Sts., rein.-con. and brick stadium, to C. Zeigler, 4301 Leavenworth St. Archts. est. $250,000. Noted Apr. 16.

**Swimming Pool — St. Louis, Mo.** — See "Buildings—Commercial."

**Swimming Pool, Roof Garden, etc.—St. Louis, Mo.**—See "Buildings—Commercial."

**Diesel Engine—Cherokee, Okla.**—City, new 300 hp. diesel oil engine generating unit for electric light plant, to McIntosh Seymour & Co., Auburn, N. Y., $33,391. Engrs. est. $35,000. Noted June 11.

**Swimming Pool—Port Collins, Colo.**—See "Buildings—Educational, Religious."

**Crusher Rolls—Inspiration, Ariz.**—Purchasing Agent Anaconda Copper Co., 25 Bway., New York City, N. Y., four 72 in. crusher rolls for new leaching plant, here, to Traylor Eng. & Mfg. Co., Allentown, Pa., for Inspiration Consolidated Copper Co. Noted May 14.

**Lighting System — Culver City, Calif.** — Ornamental street lighting system in Poinsetta Court, Kruger St., etc., to Electric Lighting Supply Co., 214 West 3rd St., Los Angeles, $26,250.

**Swimming Pool—Pasadena, Calif.**—See "Buildings—Commercial."

## Materials

### BIDS DESIRED

**Sand, etc.—Illinois**—June 29, by Dept. Pub. Wks. & Buildings, Div. of Purchases & Supplies, Capital Bldg., Springfield, 2,600 tons sand, 6,300 tons road gravel, 3,750 tons gravel or stone, etc. $20,000. F. F. Sheets, State House, engr.

### BIDS RECEIVED

**Asphaltic Oil, etc.—Trenton, N. J.**—State Hy. Dept., June 15, 137,385 gal. asphaltic oil, from T. Tobish, Mechanic Bldg., $8,243; 332,210 gal. lignin binder, from M. R. Young, 34 Fisher Pl., $36,664. Noted June 4.

### CONTRACTS AWARDED

**Ties and Timber—New York, N. Y.**—Bd. Transportation, 49 Lafayette St., ties and timber for Westchester Yard, to A. R. Sax Lumber Co., 143 West 33rd St., $38,282. Noted June 4.

**Paving Blocks—Minneapolis, Minn.**—F. S. Gram, city purch. agt., 2,870 sq.yd. granite paving blocks, to Wisconsin Granite Co., 105 West Monroe St., Chicago, Ill., at $2.99 per sq.yd.

# SEARCHLIGHT SECTION

## OFFICIAL PROPOSALS

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### OFFICIAL PROPOSALS

Bids: July 1.

#### Road Work

STATE OF RHODE ISLAND
STATE BOARD OF PUBLIC ROADS
Providence, R. I.

Sealed proposals for the reconstruction, under the provisions of the Federal Highway Act, of the following section of State highway will be received by the State Board of Public Roads at its office, State House, Providence, R. I., until 12 o'clock noon, Daylight Saving Time (11.00 a.m. Eastern Standard Time), Wednesday, July 1, 1925, at which time they will be opened and read in public:

Contract No. 2507—Federal Aid Project No. 25. North Kingstown and South Kingstown, Tower Hill Road, County of Washington.

Beginning at Allenton on the Tower Hill Road, so called, at the end of Federal Aid Project No. 9 and extending southerly on said road to Dale Carlia Corner.

7.69 miles of Reinforced Cement Concrete 18' wide, 8" thick.

Bids on the above contract must be made upon blank forms to be furnished by the Board. No bids will be accepted unless accompanied by a certified check for the sum of $200 00 payable to the State of Rhode Island.

The Board reserves the right to reject any or all bids and to give preference to towns or cities in accordance with Section 5 of Chapter 97 of General Laws of Rhode Island, Revision of 1923.

Plans may be examined and specifications and bidding blanks may be obtained at the office of the State Board of Public Roads, Room 10, State House, Providence, R. I., on and after Wednesday, June 17, 1925, every weekday (except Saturday and holidays), between the hours of 9 a.m. and 5 p.m., Daylight Saving Time (8 a.m. and 4 p.m., Eastern Standard Time), and on Saturdays from 9 a.m. to 12 m., Daylight Saving Time.

State Board of Public Roads.
ABRAM L. ATWOOD.
BENJAMIN F. ROBINSON.
FRANK COLE.
JOHN W. HANLEY.
F. A. H. BODINGTON.

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Bids: July 2.

#### Furnishing and Erecting Standpipe

Seaside Heights, N. J.,
June 18, 1925.

Sealed proposals will be received by the Borough of Seaside Heights, New Jersey, at the Fire House, Seaside Heights, New Jersey, until 8 o'clock p.m., Daylight Saving Time, Thursday, July 2, 1925, for furnishing and erecting a Standpipe, 20 feet in diameter x 120 feet high on foundations to be built by the Borough.

A certified check for two per cent (2%) of the amount of the bid must accompany each proposal.

The Borough reserves the right to reject any or all bids or to waive any informality in any bid if it appears to the best interest of the Borough so to do.

Plans and Specifications may be obtained from the Borough Clerk.

D. R. RICHMOND,
Borough Clerk.

SHERMAN & SLEEPER, Engineers,
501 Cooper Street,
Camden, New Jersey.

### OFFICIAL PROPOSALS

Bids: July 6.

#### Road Work

Hopewell Township, N. J.

Notice is hereby given that sealed bids will be received by Hopewell Township Committee for the construction of Pennington-Princeton Road in the Township of Hopewell, in the County of Mercer, with a Bituminous Penetration Macadam Pavement; estimated amount of pavement required is 10,736 square yards for one mile and 23,522 square yards for two and two-tenths miles, and opened and read in public at the office of the Hopewell Township Committee at J. W. Hart's Hall, one mile north of Pennington on the Pennington-Hopewell Road at 7 P.M., Standard Time, July 6, 1925.

Drawings, specifications and form of bid, contract and bond for proposed work, prepared by Sincerbeaux and Moore, Engineers, and approved by the State Highway Commission and Board of Freeholders, have been filed in the office of the said Engineers at Trenton and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the Engineers on proper notice and payment of a deposit of $10.00. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of the bidder and name of the road on the outside, addressed to Hopewell Township Committee and must be accompanied by a Guaranty of Surety and a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500.00 nor more than $20,000.00, and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to the Engineers.

By order of Hopewell Township Committee.

(Signed) DAVID M. VOORHEES,
Clerk.

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Bids July 6.

#### Storm Sewers

Plainfield, N. J.

Proposals will be received by the Common Council of the City of Plainfield, N. J., at the City Hall on Monday, July 6, 1925, for constructing storm sewers in various streets in said City.

Approximate estimate of quantities.
7,000 lin.ft. storm sewer, 15 in. to 36 in.
1,925 lin.ft. 12-in. inlet connections.
27 manholes.
91 inlets.
Also various minor items.

Bids received Monday, July 6, 1925, at 8:30 o'clock p.m. (Daylight Saving Time).

Certified check required $2,500.

Bond required 100 per cent of cost of work.

Plans, specifications and forms of proposal may be obtained at the office of the City Engineer, City Hall, Plainfield, New Jersey.

The Common Council reserves the right to reject any or all bids, to waive defects or informalities in bids, or accept any bid as it shall deem for the best interest of the City, and bids are only received subject to this condition.

The formal legal advertisement for this work appears in the Plainfield Courier-News.

ALEXANDER W. VARS,
City Engineer.

Dated: June 25, 1925.

### OFFICIAL PROPOSALS

Bids: July 15.

#### Philadelphia Approach, Grading, Paving and Other Work, Delaware Avenue to Fourth Street

DELAWARE RIVER BRIDGE
CONTRACT NO. 23
Philadelphia, Pa.

Sealed proposals will be received by the Delaware River Bridge Joint Commission at Room 806 Widener Building, Philadelphia, Pa., until 1.30 o'clock p.m., Eastern Standard Time, July 15, 1925, when they will be publicly opened and read, for Contract No. 23 for grading, paving and other work along the Philadelphia approach between Delaware Avenue and Fourth Street and work in adjacent streets for the bridge over the Delaware River connecting the Cities of Philadelphia and Camden.

The work will include the grading of the site and of adjacent streets, the construction of sewers and inlets, the paving and repaving of roadways and sidewalks, alterations to the Frankford Elevated Railway structure and other work. The contract time for the work is eleven months. Unit price bids are asked with lump sum bids for certain portions of the work.

Copies of the contract and contract drawings may be obtained at the office of the Joint Commission upon deposit of Twenty-Five Dollars, which deposit will be returned upon the receipt of bid or the return in good condition of the contract books.

Each proposal must be accompanied by a certified check for Twenty-Five Thousand Dollars ($25,000) payable to the Delaware River Bridge Joint Commission, and Surety's consent must be shown. The bidder or bidders to whom the contract is awarded will be required to give bond in the sum of 50 per cent of the amount of the contract.

The right is reserved to reject any or all bids.

Delaware River Bridge Joint Commission.
GIFFORD PINCHOT,
Chairman.
JOSEPH K. COSTELLO,
Secretary.

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Bids: July 6.

#### Street Improvement

White Plains, N. Y., June 9, 1925.

Sealed bids or proposals for the improvement of South Division Street, County Road No. 24, from First Street northeasterly to the Village line, with reinforced concrete pavement a distance of 1.31 miles in the Village of Peekskill, Westchester County, New York, will be received at the office of the Clerk of the Board of Supervisors, Court House, White Plains, N. Y., until 10 A.M., July 6th, 1925 (Daylight Saving Time).

Specifications, proposal sheets and all information relative to same may be procured at the office of the County Superintendent of Highways, Court House, White Plains, N. Y., upon making a deposit of ten dollars ($10.00), which will be refunded upon return of the plans in good condition within thirty (30) days of reception of bids.

BOARD OF SUPERVISORS
FRED L. MERRITT, Clerk.

## OFFICIAL PROPOSALS

Bids: July 6.

### Linoleum

GRASSLANDS HOSPITAL
White Plains, N. Y.

Proposals will be received for the furnishing and laying of linoleum required for the Nurses' Home and Employees' Dormitory in connection with the County Hospital in the Town of Mt. Pleasant, County of Westchester and State of New York and known as Grasslands Hospital.

Separate sealed bids or proposals will be received at the office of the Clerk of the Board of Supervisors at the Court House, White Plains, New York, until eleven A.M. (Daylight Saving Time), July 6th, 1925.

Specifications, drawings, and all information relative to the same may be procured either from Walker & Gillette, Architects, or from Fred L. Merritt, Clerk of the Board of Supervisors, Court House, White Plains, New York.

Each separate bid or proposal must be accompanied by a certified check in the sum of three per cent of the amount bid, made payable to the Treasurer of the County of Westchester, same to be forfeited to the County of Westchester as liquidated damages in the case of failure on the part of the successful bidder to enter into a contract for the execution of the work awarded to him and to furnish a satisfactory bond within five days after notice of such award.

Each successful bidder will be required to execute the contract and furnish a surety company bond in the sum equal to fifty per cent of the amount of the contract awarded to him, guaranteeing the faithful performance of the work, said contract and the bond to be in the form required by the County Attorney.

All bidders must submit their bids in the form of bid accompanying the drawings and specifications and in the manner indicated therein.

The Board of Supervisors reserves the right to reject any and all bids or to accept any proposal which it may deem for the best interest of the County of Westchester.

BOARD OF SUPERVISORS OF
WESTCHESTER COUNTY
FRED L. MERRITT, Clerk.

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Bids: June 26.

### Schenectady-Scotia Bridge (Fourth Contract)

STATE OF NEW YORK
DEPARTMENT OF PUBLIC WORKS
BUREAU OF CANALS
Albany, N. Y.
May 27, 1925.

Sealed proposals will be received by the undersigned at his office, No. 55 Lancaster Street, Albany, N. Y., until twelve o'clock noon (daylight saving time), of Friday, June 26, 1925, at which place and hour they will be publicly opened and read, for improving the New York State canals pursuant to the provisions of Chapter 147 of the Laws of 1903, and amendatory and supplemental laws, and Chapter 735, Laws of 1917, Chapter 634, Laws of 1919, Chapter 650, Laws of 1921, Chapter 436, Laws of 1922, and Chapter 688, Laws of 1923, as follows:

SCHENECTADY-SCOTIA BRIDGE
(Fourth Contract)

For constructing the pavements and completing the approaches of a bridge across the Mohawk River between the city of Schenectady and the village of Scotia, New York.

Sheets 1 to 8, inclusive.

Plans may be seen, and detailed specifications, engineers' estimates of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Bureau of Canals, Albany, N. Y.; at the office of the Division Engineer, Department of Public Works, at Utica, Syracuse, Rochester and Buffalo; and at the Terminal Warehouse, Pier 6, East River, New York City.

Blueprint copies of plans will be furnished by the State Engineer and Surveyor upon the receipt at his office in the Telephone Building, Albany, N. Y., of payment at the rate of twenty-five cents (25c.) per sheet. Refund will not be made for any blueprints which may be returned.

Monthly estimates will be paid of ninety per centum (90 per cent) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank, in good credit within the State, and payable at sight to the Commissioner of Canals and Waterways for five per centum (5 per cent) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Commissioner of Canals and Waterways.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Commissioner of Canals and Waterways, which sum shall not be less than fifty per centum (50 per cent) of the estimated cost of the work, according to the contract price, and an additional bond known as the labor bond in the sum of ten per centum (10 per cent) of the amount of the estimated cost of the work, according to the contract price will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Bureau of Canals, State Department of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Commissioner of Canals and Waterways of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject any or all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

ROYAL K. FULLER,
Commissioner of Canals and Waterways.

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Bids: July 2.

### Concrete Foundation for Standpipe

Seaside Heights, N. J.,
June 18, 1925.

Sealed proposals will be received by the Borough of Seaside Heights, New Jersey, at the Fire House, Seaside Heights, New Jersey, until 8 o'clock p.m., Daylight Saving Time, Thursday, July 2, 1925, for building a concrete foundation for a Standpipe 20 feet x 120 feet.

Plans and Specifications may be obtained from the Borough Clerk.

A certified check for two per cent (2%) of the amount of the bid must accompany each proposal.

The Borough reserves the right to reject any or all bids or to waive any informality in any bid if it appears to the best interest of the Borough so to do.

D. R. RICHMOND,
Borough Clerk.

SHERMAN & SLEEPER, Engineers,
501 Cooper Street,
Camden, New Jersey.

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Bids: July 7.

### Highway Work

Harrisburg, Pa.

Pennsylvania Department of Highways, Harrisburg, Pennsylvania. Bids will be received July 7, 1925, for construction of twelve projects, totaling approximately thirty-three miles, construction to be either bituminous surface on a concrete base or reinforced concrete. Projects situated in the following counties:

Armstrong, Indiana, Blair, Cambria, Bucks, Butler, Chester, Erie, Huntingdon, Lehigh, Lycoming, Montgomery, Washington.

Full particulars upon application to P. D. Wright, Secretary of Highways, Harrisburg, Pennsylvania.

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Bids: July 2.

### Bridge Re-construction

North Adams, Mass.

Notice is hereby given that sealed proposals will be received by the Commissioner of Public Works, in the City Hall, North Adams, Massachusetts, for the Reconstruction of the Holden Street Bridge, on the 2nd of July, 1925, at Two o'clock Advanced Standard Time, which is One o'clock Eastern Standard time.

The Bridge has an overall length of about 66 feet, and a width of 37 feet. It consists of a steel plate girder encased in reinforced concrete, and contains approximately:

145,000 pounds of Structural Steel;
24,000 pounds of Steel Rods;
372 Cubic Yards of Concrete;
1,044 Square Feet of Concrete Sidewalk;
260 Cubic Yards of Excavation.

Maps, plans and specifications may be seen and obtained, and proposal forms obtained on and after Tuesday, June 16, 1925, at the office of the Commissioner of Public Works, in the City of North Adams, Massachusetts; and at the office of the Consulting Engineer, G. Saxton Thompson, Room 7, 257 Broadway, Troy, New York, on the Deposit of Five Dollars ($5.00), which amount will be refunded upon the return of the plans and specifications in good condition.

The special attention of bidders is called to the "Information to Contractors" and "Information to Bidders" in the specifications.

Each proposal must be accompanied by cash, draft, or certified check, payable to the order of the Treasurer of the City of North Adams, for an amount equal to at least five (5) per cent of the amount of the proposal. In case this proposal shall be accepted by the Commissioner of Public Works, North Adams, Massachusetts, and the bidder shall fail to execute the contract and in all respects comply with all local ordinances or laws, then the Commissioner of Public Works may cash said check and deduct from the proceeds thereof or the said sum of money, an amount equivalent to the difference between the price of the bidder's proposal and the amount of the final contract; and upon further understanding that the said certified check or voucher will be returned upon the rejection of the bid.

The successful bidder will be required to execute a bond in an amount equal to the contract price with sufficient sureties, to be approved by the Commissioner of Public Works of the City of North Adams, and to execute the contract within ten (10) days after the award.

The City of North Adams reserves the right to reject any or all bids.

Subject to approval of Department of Highways.

EOLUS R. DOBLE,
Commissioner of Public Works
North Adams, Massachusetts.
June 10, 1925.

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Bids: June 29.

### Sewers, Manholes, etc.

Butler, N. J.

The Council of the Borough of Butler, N. J., will receive at its meeting, to be held on the 29th day of June, 1925, at 8 p.m. (daylight saving time), sealed proposals for furnishing materials and doing all other work required for the construction of sewers, manholes and appurtenances on Bartholdi Avenue.

The work includes approximately 3,375 feet of 8-inch vitrified tile sewer and 14 manholes.

Plans may be seen and specifications and forms of proposals obtained at the office of the Borough Clerk at Butler, N. J., or at the office of Clyde Potts, 30 Church Street, New York City.

Plans and specifications may be taken away upon the payment of five dollars ($5.00), the same to be returned if the plans are returned within twenty (20) days, in good condition.

Each bid must be accompanied by a certified check for not less than 10% of the amount of the bid, payable to the order of the Borough of Butler, N. J.

The Borough Council reserves the right to reject any and all proposals and to waive any informality in the proposals received, and to accept any proposal which they deem to be most favorable to the interests of the Borough.

JOHN F. BORMUTH,
Borough Clerk.

## OFFICIAL PROPOSALS

Bids: July 1.

### Road Work

STATE OF RHODE ISLAND
STATE BOARD OF PUBLIC ROADS
Providence, R. I.

Sealed proposals for the reconstruction of the following section of State highway will be received by the State Board of Public Roads at its office, State House, Providence, R. I., until 12 o'clock noon, Daylight Saving Time (11:00 A.M., Eastern Standard Time) on Wednesday, July 1, 1925, at which time they will be opened and read in public:

Contract No. 2508
Middletown-Portsmouth West Main Road
Newport County

Beginning at Two-Mile Corner, so-called, on the West Main Road and extending northerly on said road for 2.91 miles approx.

2.91 miles Bituminous Macadam (Penetration Method) 18 ft. wide
Variable thickness. Trap Rock.

Bids on the above contract must be made upon blank forms to be furnished by the Board. No bids will be accepted unless accompanied by a certified check for the sum of $200.00 payable to the State of Rhode Island.

The Board reserves the right to reject any or all bids and to give preference to towns or cities in accordance with Section 5 of Chapter 97 of the General Laws of Rhode Island, Revision of 1923.

Plans may be examined and specifications and bidding blanks may be obtained at the office of the State Board of Public Roads, Room 10, State House, Providence, R. I., on and after Wednesday, June 17, 1925, every weekday (except Saturday and holidays) between the hours of 9 A.M. and 5 P.M., Daylight Saving Time (8 A.M. and 4 P.M., Eastern Standard Time) and on Saturdays from 9 A.M. to 12 M., Daylight Saving Time.

STATE BOARD OF PUBLIC ROADS
ABRAM L. ATWOOD,
BENJAMIN F. ROBINSON,
FRANK COLE,
JOHN W. HANLEY,
F. A. H. BODINGTON,

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Bids: July 7.

### Road Work

Dade City, Fla.
June 8, 1925.

Sealed proposals will be received by the Board of County Commissioners, Pasco County, Florida, until 12 o'clock Noon, on July 7th, 1925, for the improvement of the following Projects, to wit:

Project No. 1.—The road from Trilby north to the Hernando County line. Approximately 1 mile. Bituminous surface on rock base 15 feet wide.

Project No. 2.—The road from San Antonio south through Wesley Chapel connecting with Road No. 7, Gulf Special District, approximately 1 mile east of State road No. 5. Distance approximately 18 miles. Bituminous surface on rock base 15 feet wide.

Project No. 3.—Road from Zephyrhills west to road hereinbefore mentioned as Project No. 2, near Wesley Chapel. Distance approximately 10 miles, bituminous surface on rock base, 15 feet wide.

Project No. 4.—A road from Port Richey to Hudson. Distance approximately 8 miles. Bituminous surface on rock base, 15 feet wide.

Project No. 5.—A road starting from a point about 4 miles west of Zephyrhills as road mentioned in Project No. 2, and running south to the Hillsborough County line, 4 miles approximately is the distance. Bituminous surface on rock base, 15 feet wide.

Project No. 7.—Concrete curbing over Sumner Hill on Jessamine Drive. Distance approximately 2,000 feet.

Project No. 8.—The road from Odessa east connecting with Project No. 2, 1 mile east of State road No. 5. Approximately 9½ miles; 8½ miles of bituminous surface on rock base 9 feet wide and 1 mile of bituminous surface on rock base, 15 feet wide.

Project No. 9.—The road from New Port Richey to Moon Lake and connecting with Pasco Road. Distance approximatley 12 miles. Bituminous surface on rock base, 9 feet wide.

Project No. 10.—A road from the north end of the National Highway near Lacoochee in an easterly direction to Slaughter. Distance approximately 6 miles. Drained and graded 18 feet wide.

Project No. 11.—St. Joseph road from a point on Jessamine Drive ¼ mile west of Dade City to St. Joseph. Distance approximately 7 miles, bituminous surface on rock base, 15 feet wide.

Project No. 12.—The completion of road No. 6, Gulf Special District. Distance approximately 2 miles, bituminous surface on rock base, 9 feet wide.

Project No. 13.—The completion of road No. 4 Gulf Special District. Distance approximately 1½ miles, bituminous surface on rock base, 9 feet wide.

Project No. 14.—The completion of road No. 3, Gulf Special District. Distance approximately 1 mile. Bituminous surface on rock base, 9 feet wide.

Project No. 15.—A road beginning in Trilby where National Highway turns east towards Lacoochee and running thence westerly for a distance approximately ½ mile. Bitminous surface on rock base, 15 feet wide.

Project No. 16.—A road running northeast and southwest through Ehren, connecting Pasco Road with State Road No. 5. Distance approximately 6 miles. Bituminous surface on rock base, 15 feet wide.

Project No. 17.—A road starting from the end of the rock road in Dade City; running easterly to Lanier Bridge across the Withlacoochee River. Distance approximately 4½ miles. Bituminous surface on rock base, 15 feet wide.

Project No. 18.—A road starting from Pasco Road at or near the southwest corporate limits of Dade City; running southerly along the Fort King Road to Zephyrhills and to connect with the National Highway. Distance approximately 9½ miles. Bituminous surface on rock base, 15 feet wide.

Project No. 19.—A road starting from a point at or near east end of Meridian Street in Dade City, Florida; running South along present graded road through Ellerslie and Richland to the Polk County line. Distance approximately 12 miles. Bituminous surface on rock base, 15 feet wide.

Project No. 20.—A road beginning at the north end of the clay road from St. Joseph to lake Iola and running in a northeasterly direction to Jessamine Drive. Distance approximately 2 miles. Drained, graded 18 feet wide and sand clayed 9 feet wide.

Project No. 21.—A road beginning at St. Joseph and running west about 2 miles; thence northerly about 2 miles; thence west about 2 miles; thence south about 6½ miles, following present established road as nearly as practicable. Bituminous surface on rock base, 9 feet wide.

Project No. 22.—For the completion of a road beginning at Jessamine Groves on the Jessamine Drive and connecting with the St. Joseph road south of St. Joseph. Distance approximately 3 miles. Bituminous surface on rock base, 9 feet wide. Also a road beginning at the Pasco Road in San Antonio and running north to the St. Joseph Road. Distance approximately 3 miles. Bituminous surface on rock base, 15 feet wide.

Project No. 23.—Begin at a point on Jessamine Drive in Blanton and run northeasterly along the west side of the Atlantic Coast Line Railroad to Trilby, to connect with west end of road described in Project No. 15, approximately 6 miles, to be graded 20 feet wide and surfaced with sand clay, 15 feet wide.

Project No. 24.—A road beginning at the south end of the clay road at or near Prospect and running southerly to road described in Project No. 3. Distance approximately 5 miles, graded and clayed where necessary.

Project No. 25.—For the completion of road No. 4, Highlands Special District, beginning at the National Highway ½ mile north of Zephyrhills and running in an easterly direction to road designated Project No. 19. Approximately 4½ miles. Bituminous surface on rock base, 15 feet wide.

All proposals must be upon the blank forms provided, conform to specifications, etc., sealed and addressed to A. J. Burnside, Clerk of the Board of County Commissioners, Dade City, Florida.

A certified check in amount of three (3%) per cent of the proposal with a maximum check for $15,000.00 and made payable to B. A. Thomas, Chairman, Board County Commissioners, Pasco County, Florida, shall accompany each and every proposal as a guarantee of good faith on the part of the bidder.

The commissioners reserve the right to reject any or all proposals; to let contracts covering each and every road, or to let separately the Rock Base, the Wearing Surface, or to let a contract coveringg any portion of the work that may appear to them to be the best interests of the County.

Each and every contractor will be required to give a surety bond in amount of thirty (30%) per cent of the estimated cost of their contract for the faithful completion and execution of the same. Said Surety Bond to be secured through some local agent of a Surety Company represented in Pasco County and residing in said Pasco County, Florida.

Each bidder must accompany his bid with a certificate from a surety company authorized to do business in this State, and represented in Pasco County as above mentioned, stating that such surety company will provide said bidder with a bond in such sum as is required and in accordance with the provisions of the said specifications, conditioned for the faithful performance of the provisions of the contract and specifications, aforesaid.

Plans, profiles and specifications may be examined at the office of the Engineer Dade City, Florida, on and after the 26th day of June, 1925. Copies of the Specifications may be had by depositing Five (5) Dollars therefor.

The Board of County Commissioners will sit at 1:30 o'clock, P.M. on the above mentioned date for the purpose of opening publicly reading and considering any and all proposals that may have been submitted.

Dated at Dade City, Florida, this
the 8th day of June, 1925.

A. J. BURNSIDE,
Clerk, Board County Commissioners.

NOTE.—The above work is covered by an issue of One Million Three Hundred Thirty Thousand ($1,330,000.00) Dollars. The bonds have been sold and the amount will be available for the work.

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Bids: July 8.

### Bridges

Freehold, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders of the County of Monmouth, for the construction of Bridges No. F31, 32, 33, 34, 37 and Mn-52, the first five of which are located on the Elton-Adelphia Road, and the last on the Tennent-East Freehold Road, at Tennent Church, and opened and read in public at the rooms of said Board, Court House, Freehold, New Jersey, on July 8th, 1925, at 11.00 a.m., daylight saving time.

The proposed work will consist in the removal and disposition of the present structures, and the construction of the new culverts complete in every detail.

Drawings and specifications for the proposed work have been filed in the office of the County Engineer at 60 Broad Street, Red Bank, New Jersey, and may be inspected by prospective bidders, during business hours.

The standard proposal form is attached to the specifications. Copies of the proposal form will be furnished on application to the Engineer.

Drawings and specifications will be furnished to prospective bidders upon payment of ten dollars ($10.00) and will be returned only to those submitting a regular bid, and who return the drawings and specifications in good condition.

Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of the bidder and name of proposed work on the outside, addressed to the Board of Chosen Freeholders of the County of Monmouth, and must be accompanied by a certified check for a sum not less than ten (10) per cent of the amount bid on the work; payable to the order of the County Treasurer and a surety company certificate stating that said surety company will provide the bidder with a bond in the amount of one hundred (100) per cent of the contract price, and must be delivered at the place and before the hour for opening of bids.

The Board of Chosen Freeholders of the County of Monmouth reserves the right to reject any or all bids if deemed to the best interests of the County so to do.

By order of the Board of Chosen Freeholders of the County of Monmouth.

BRYANT B. NEWCOMB,
Director.

Attest:
CHARLES E. COLE,
Clerk.
Freehold, N. J., June 3, 1925.

## OFFICIAL PROPOSALS

Bids: July 7.

### Construction and Repair Work

STATE OF NEW YORK
DEPARTMENT OF PUBLIC WORKS
BUREAU OF CANALS

Albany, N. Y.,
June 4th, 1925.

Sealed proposals will be received by the undersigned at his office, No. 55 Lancaster Street, Albany, N. Y., until twelve o'clock noon (daylight saving time), of Tuesday, July 7th, 1925, at which place and hour they will be publicly opened and read, for improving the New York State canals pursuant to the provisions of Chapter 147, Laws of 1903, and amendatory and supplemental laws, and Chapter 217, Laws of 1925, as follows:

CONTRACT NO. 229
ERIE CANAL—SECTION 5.

For new construction and repair work at the Delta Dam. Contract plans, sheets 1 to 4, inclusive.

Plans may be seen, and detail specifications, engineers' estimates of quantities, proposal blanks, form of contract, and bonds required and other information for proposers may be had at the office of the Bureau of Canals, Albany, N. Y.; at the office of the Division Engineer, Department of Public Works, at Utica, Syracuse, Rochester and Buffalo; and at the Terminal Warehouse, Pier 6, East River, New York City.

Blueprint copies of plans will be furnished by the State Engineer and Surveyor upon the receipt at his office in the Telephone Building, Albany, N. Y., of payment at the rate of fifteen cents (15c.) per sheet. Refund will not be made for any blueprints which may be returned.

Monthly estimates will be paid of ninety per centum (90 per cent) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank in good credit, within the State and payable at sight to the Commissioner of Canals and Waterways for five per centum (5 per cent) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time in which case the amount of the deposit will be refunded by the Commissioner of Canals and Waterways.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Commissioner of Canals and Waterways, which sum shall not be less than fifty per centum (50 per cent) of the estimated cost of the work, according to the contract price, and an additional bond known as the labor bond, in the sum of ten per centum (10 per cent) of the amount of the estimated cost of the work, according to the contract price will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Bureau of Canals, State Department of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Commissioner of Canals and Waterways of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject any or all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

ROYAL K. FULLER,
Commissioner of Canals and Waterways.

## OFFICIAL PROPOSALS

Bids: July 1.

### Road Work

Newton, N. J.

Notice is hereby given that sealed bids will be received by the Board of Freeholders of the County of Sussex for the paving of the Ross' Corner Sussex Road, Section 1 B in the Township of Frankford in the County of Sussex with a Reinforced Concrete Surface, estimated amount of surface pavement required is 14,222 sq.yds. and for the improvement of the Sussex Coleville Road in the Township of Wantage in the County of Sussex with a shale surface, pavement required is 60,335 square yards, excavation required 55,452 cu.yds., and opened and read in public at the Freeholders Office, Newton, N. J., on July 1st, 1925, at 11:30 a.m., Daylight Saving Time.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by Harvey Snook, County Engineer, and approved by the State Highway Commission, have been filed in the office of the said engineer at Newton, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the Engineer on proper notice and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of road on the outside, addressed to Board of Chosen Freeholders, County of Sussex, Newton, N. J., and must be accompanied by a certificate of the Bonding Company and a certified check for not less than ten (10) per cent of the amount bid, provided said check shall not be less than $500.00 nor more than $20,000.00, and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to Engineer.

The Board reserves the right to reject any or all bids.

By order of the County of Sussex.
(Signed) NORMAN B. ANDERSON,
Clerk.

Bids: July 6.

### Subway Construction for Highway

STATE OF NEW JERSEY
STATE HIGHWAY COMMISSION

Trenton, N. J.

Contractors experienced in rock and earth excavation, the construction of bridges, retaining walls, and other structures of steel or masonry and/or reinforced concrete with necessary foundations, etc., street paving of concrete and granite block and in the other classes of work more particularly described in the plans, specifications and other documents and papers hereinafter referred to, are invited to tender bids on a unit price basis for the construction of the second section of the Highway known as Route No. 1 Extension, said section being situated between the New Jersey Junction Railway and Oakland Ave., in the City of Jersey City, N. J., a length of about 1,600 feet.

The work is to be done under the direction of the State Highway Commission and the State Highway Engineer, and in accordance with the provisions of Chapter 14, Laws of 1917, Chapter 253, Laws of 1922, and all Laws amendatory thereof or supplemental thereto.

The work contemplated under this contract includes briefly the following:

The clearing of the site of the work, including the demolishing of buildings as may be required.

The excavation for and the construction of a depressed roadway, surface streets, pavements, etc.

The relocation and reconstruction of subsurface structures such as sewers, water pipes, etc., etc.

Relocation of street railway tracks, poles, wires, etc.

The maintenance of Hoboken Avenue and adjacent streets and the street railway tracks within the area affected by the work, in such a manner that traffic can be maintained over them in a satisfactory manner.

Attention is called to the relation of this proposed work to the tracks of the Erie R.R., and other adjacent properties, and the contractor's responsibility for protecting these from the effects of blasting and other damages, incident to the construction.

The principal items of work to be done and the approximate quantities of some of them are:

Excavation, earth and rock, 78,000 cu.yds.
Concrete, 11,500 cu.yds.
Structural and other steel, 1,700 tons.
Asphalt Paving, 8,000 sq.yds.
Reconstruction of sub-surface structures.

The plans and specifications, form of proposal, contract and bond are on file at the office of the State Highway Commission of New Jersey, Trenton, New Jersey. Copies can be obtained at the office of the Commission at Trenton, or at the office of the Engineer at 921 Bergen Avenue, Jersey City. A deposit of Fifty Dollars ($50.00) will be required by the State Highway Commission of New Jersey for each set of plans and specifications furnished. The whole amount of such deposit will be refunded on the return of the plans and specifications in good condition to the State Highway Commission on or before July 6th, 1925.

Bids for this work will be received at the office of the State Highway Commission, 9th Floor, Broad Street Bank Building, Trenton, New Jersey, on Monday, July 6th, 1925, at eleven o'clock—11:00 a.m., Standard Time, (12 o'clock—noon, daylight saving time), and will be opened and read immediately thereafter.

Bids must be made on the form of proposal attached to the form of Contract, copy of which will be furnished by the Commission, and must be enclosed in sealed special addressed envelopes, which also will be furnished, bearing the name and address of the bidder and plainly marked "Proposal for the Construction of Section 2, Route No. 1 Extension," and a certified check made payable to the order of the Treasurer of the State of New Jersey, for the sum of Fifty Thousand ($50,000.00) must accompany each bid, said check to be returned to the unaccepted bidders on award of the contract, and to the accepted bidder on his signing the contract and furnishing the bond.

If the accepted bidder fails to execute and deliver the contract and bond within the time specified, the check shall become the absolute property of the State of New Jersey.

Each bidder must accompany his bid with a certificate from a surety company or surety companies duly authorized to do business in the State of New Jersey and satisfactory to the State Highway Commission of New Jersey, stating that if the bidder is awarded the contract such surety company or companies will provide the bidder with a guaranty bond or bonds for a sum equal to the total amount of the bid.

The State Highway Commission of New Jersey reserves the right to reject any or all bids.

By order of the State Highway Commission.

A. LEE GROVER,
Secretary.

Bids: July 13.

### Water Mains, Pumping Station, Etc.

Covington, Ky.

Sealed proposals will be received at the office of the Dixie Highway Water Co., No. 605 Coppin Building, Covington, Kentucky, until Two o'clock p.m. of Monday, July 13th, 1925, for the furnishing and laying of Water Mains; Construction of a Pumping Station; the furnishing and erection of Pumping and Auxiliary Machinery and Fittings; and the furnishing and erection of an Elevated Steel Water Tank.

Plans and specifications are on file at the office of the Dixie Highway Water Co., No. 605 Coppin Building, Covington, Kentucky, and are open to the inspection of all parties interested.

Each proposal must be accompanied by a surety company bond or certified check, of an amount equal to at least ten (10) per cent of the total bid, as a guaranty that if proposal be accepted a contract will be entered into.

The bidder or bidders to whom contract is awarded will be required to furnish a surety company bond in an amount equal to at least fifty (50) per cent of the total bid.

The Company reserves the right to reject any or all bids.

Bidders must use the printed forms, as none other will be considered.

THE DIXIE HIGHWAY WATER COMPANY.

## OFFICIAL PROPOSALS

Bids: July 6.

### Road Work

STATE OF NEW JERSEY
STATE HIGHWAY COMMISSION
Trenton, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the State Highway Commission of New Jersey for the following:

ROUTE NO. 4, SECTION NO. 32
Construction of Route No. 4, Section No. 32, Rahway to Perth Amboy, in the Counties of Middlesex and Union. Estimated 25,371 cu.yds. earth excavation; 1,200 cu.yds. soft rock excavation; 500 cu.yds. hard rock excavation; 80,200 sq.yds. 9" reinforced concrete pavement, together with the construction of one small span bridge.

Bids for the above will be received at the office of the State Highway Commission, 9th floor Broad Street Bank Building, Trenton, New Jersey, on Monday, July 6, 1925, at eleven o'clock (11:00 A.M.), Standard Time, and will be opened and read immediately thereafter.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on a deposit of Ten Dollars ($10) for each project upon application to the State Highway Department, Room 901, Broad Street Bank Building, Trenton, New Jersey. Bids must be made on the standard proposal forms in the manner designated in the 1924 specifications and must be enclosed in sealed special addressed envelopes bearing the name and address of the bidder and name and section of route on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten per cent (10%) of the amount of the bid, provided that the said certified check shall not be less than $500.00 nor more than $20,000.00 and be delivered at the above place on or before the hour named. Copies of the standard proposal form and special addressed envelopes will be furnished on application. Bids not enclosed in special addressed envelopes will be considered informal and will not be opened.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of the said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a statement of equipment properly filled out.

By order of the State Highway Commission.

A. LEE GROVER,
Secretary.

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Bids: July 2.

### Road Work

VIRGINIA STATE HIGHWAY COMMISSION
Richmond, Va.,
June 11th, 1925.

Sealed bids will be received at the Office of the State Highway Commission, State Office Bldg., Capitol Square, Richmond, Va., until 10:30 a.m., Thursday, July 2nd, 1925, for the construction of:

ROUTE 31—PROJECT F-379 B—2.602 Mi. So. of Ritchies Store to 4.424 Mi. So. Ritchies Store, in Dinwiddie Co. 1.913 Mi. of 18' x 8"-6"-8" Concrete surfacing. Shipping Pt., Petersburg, S. A. L. & N. & W. R.Rs., 4 mi. haul.

Proposal guaranty to be cert. check, cashier's check, or cert. of deposit to the amount of $1,000.00. Proposal bonds 20% in excess of the above amount may be used.

Plans and specifications are on file at the Richmond Office, State Highway Commission and at the office of the Dist. Engr. in Richmond. Additional plans for bidders may be obtained upon application to the State Highway Dept., upon receipt of $5.00 payable to H. G. Shirley, $2.50 of which will be refunded if plans are returned in good condition within two weeks after bids are opened.

An Engineer will be at Hotel Petersburg, in Petersburg at 10 a.m., Thursday, June 25th, to show prospective bidders over the work. The State Highway Commission reserves the right to reject any or all bids.

H. G. SHIRLEY,
Chairman.
C. S. MULLEN,
Chief Engineer.

## OFFICIAL PROPOSALS

Bids: July 6.

### Screens

GRASSLANDS HOSPITAL
White Plains, N. Y.

Proposals will be received for the furnishing and erecting of Screens required for Nurses' Home and Employees' Dormitory in connection with the County Hospital in the Town of Mt. Pleasant, County of Westchester, and State of New York, and known as Grasslands Hospital.

Separate sealed bids or proposals will be received at the office of the Clerk of the Board of Supervisors at the Court House, While Plains, New York, until eleven a.m. (Daylight Saving time), July 6th, 1925.

Specifications, drawings and all information relative to the same may be procured either from Walker & Gillette, Architects, or from Fred L. Merritt, Clerk of the Board of Supervisors, Court House, White Plains, New York.

Each separate bid or proposal must be accompanied by a certified check in the sum of three per cent of the amount bid, made payable to the Treasurer of the County of Westchester, same to be forfeited to the County of Westchester as liquidated damages in the case of failure on the part of the successful bidder to enter into a contract for the execution of the work awarded to him and to furnish a satisfactory bond within five days after notice of such award.

Each successful bidder will be required to execute the contract and furnish a surety company bond in the sum equal to fifty per cent of the amount of the contract awarded to him, guaranteeing the faithful performance of the work, said contract and bond to be in the form required by the County Attorney.

All bidders must submit their proposal on the form of bid accompanying the drawings and specifications and in the manner indicated therein.

The Board of Supervisors reserves the right to reject any and all bids or to accept any proposal which it may deem for the best interest of the County of Westchester.

Board of Supervisors, County of Westchester.

FRED L. MERRITT,
Clerk.

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Bids: June 27.

### Road Work

Elizabeth City, N. C.

Bids desired June 27th, 2:30 o'clock p.m. by the Pasquotank Highway Commission, Elizabeth City, N. C., S. G. Scott, Chairman, for hard-surfacing Body Road, three (3) miles. J. R. Ford, Engineer, Box 232, Elizabeth City, N. C. Plans and specifications can be seen in the office of the Pasquotank Highway Commission. Plans will be sent upon receipt of ten dollars deposit. The right is reserved to reject all bids.

J. R. FORD, Engineer,
Box 232, Elizabeth City, N. C.

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Bids: July 6.

### Road Work

Fayetteville, W. Va.

Sealed proposals will be received by the County Court of Fayette County, W. Va., at the Court House in Fayetteville, until 10.00 o'clock a.m. on the 6th day of July, 1925, and opened and read immediately thereafter for the construction of the following section of County District Road.

Project K 51—7 miles of the Kincaid-Deepwater Road in Kanawha District for paving with Cement Concrete or Bituminous Macadam.

Certified Check, $5,000.00.

Proposals will be received only upon standard forms, in accordance with plans, specifications and estimates of the quantities therefor, which standard forms, plans, specifications and estimates of quantities may be obtained from the County Road Engineer at Fayetteville, W. Va.

Each proposal must be accompanied by a certified check in the amount specified.

The right is reserved to reject any and all bids.

The County Court of Fayette County.
THOMAS BOONE,
Clerk.

## OFFICIAL PROPOSALS

Bids: June 30.

### Construction, Heating, etc.

BROOKLYN STATE HOSPITAL
CREEDMOOR DIVISION
Brooklyn, N. Y.

Sealed proposals for Construction, Heating, Sanitary, Electric Work, Refrigeration (Buildings A, B, C, H, I, K, L, M, N, T, X, Y, EE, FF, HH, etc.), Creedmoor Division, Brooklyn State Hospital, Queens (Creedmoor), Long Island, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 2 o'clock, P. M. (Eastern Standard Time), Tuesday, June 30th, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into the contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York or money equal to 5% of the amount of proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of Specifications Nos. 4481, 4482, 4483, 4484 and 4485. The right is reserved to reject any or all bids. Drawings and specifications may be examined at Brooklyn State Hospital, Brooklyn, N. Y.; at the New York Office of the Department of Architecture, 18th floor, Flatiron Building, Broadway and 23rd St.; and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained by persons or firms engaged in the line of work required at the discretion of the Architect from the Department of Architecture, Capitol, Albany, N. Y., upon a deposit of $100 of money, or check made payable to the State of New York for each set of Construction drawings and specifications and in the amount of $25.00 for each set of Heating, Sanitary, Electric or Refrigeration drawings and specifications, which deposit will be returned if the drawings and specifications are received in good condition by the State Architect, Sullivan W. Jones, Capitol, Albany, N. Y.

DATED: June 1, 1925.

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Bids: July 1.

### Paving, Curbing, etc.

Georgetown, S. C.

Sealed bids will be received until 12 o'clock July 1, 1925, at office City Clerk, Georgetown, S. C., for paving and other municipal improvements, consisting of the following approximate quantities:

23,000 sq.yd. street pavement.
14,000 lin.ft. curb and gutter.
20,000 sq.yd. sidewalk with necessary storm sewers, manholes, etc.

Plans, specifications, etc., will be mailed on request to Johnson & Roberts, Engineers, Marion, S. C., on receipt of $5 without refund.

C. B. COLBERT, Mayor,
Georgetown, S. C.

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Bids: July 6.

### Sewer

Lansdale, Pa.

Bids will be received by the Council of the Borough of Lansdale, Pa., up to 7 p.m. Standard Time, July 6, 1925, for:

(a) Constructing 3,800 feet Vitrified Pipe Sewer 20 inches in diameter and 13 manholes.
(b) Constructing 420 feet 5' x 5' reinforced concrete culvert.
(c) Constructing a Sewage Treatment Plant.

Bids must be sealed, made on blanks furnished by the Engineers and accompanied by a certified check to the amount of 2% of the amount of the bid. The plans and specifications may be obtained at the office of Albright & Mebus, 1502 Locust St., Philadelphia, Pa., or Glenside, Pa., upon the receipt of $10.00, which will be refunded if the plans and specifications are promptly returned in good condition.

The Borough reserves the right to reject any or all bids.

By order of Council.

NELSON C. B. KRIEBEL,
Secretary.

June 8, 1925.

## OFFICIAL PROPOSALS

Bids: July 21.

### Construction, Heating, Sanitary Work, etc.

Ithaca, N. Y.

Sealed proposals for Construction, Heating, Sanitary and Electric Work, Additions and Alterations to Veterinary Hospital, New York State Veterinary College, Cornell University, Ithaca, N. Y., will be received by Mr. C. B. Bostwick, Comptroller, Cornell University, Ithaca, N. Y., until 11 o'clock a.m., (Eastern Standard Time), Tuesday, July 21, 1925, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a deposit as a guarantee that bidder will enter into the contract if awarded same. Deposit shall consist of a certified check drawn upon some legally incorporated bank in this State and made payable to the State of New York or money equal to 5% of the amount of proposal. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of Specifications Nos. 4542, 4543, 4544 and 4545. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the New York State Veterinary College, Cornell University, Ithaca, N. Y.; at the New York Office of the Department of Architecture, 18th Floor Flatiron Building, Broadway & 23rd Street; and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained by persons or firms engaged in the line of work required at the discretion of the Architect from the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check, or money, in the sum of $10.00 made payable to the State of New York, for each set of drawings and specifications, which deposit will be returned if the drawings and specifications are received in good condition by the State Architect, Sullivan W. Jones, Capitol, Albany, N. Y.

Dated: June 17, 1925.

Bids: July 15.

### Highway Construction

STATE DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS

Albany, N. Y.

Sealed proposals will be received by the undersigned at the office, No. 55 Lancaster Street, Albany, N. Y., until one o'clock p.m. on Wednesday, July 15, 1925, advanced standard time, which is twelve o'clock noon eastern standard time, for the construction of highways in the following counties:

CAYUGA.....(one highway: 3.01 miles)
MADISON.....(one highway: 5.58 miles)
ONEIDA.....(one highway: 5.58 miles)
ST. LAWRENCE.....(one highway: 8.53 miles)
WAYNE.....(one highway: 5.90 miles)
WYOMING.....(one highway: 1.26 miles)
STEUBEN.....(one highway: 5.58 miles)

Also for the reconstruction of the following:

ALBANY.....(one contract: 1.04 miles)
CAYUGA.....(one contract: 4.91 miles)
COLUMBIA.....(one contract: 1.78 miles)
ESSEX.....(one contract: 7.64 miles)
FRANKLIN.....(one contract: 0.66 miles)
ONONDAGA.....(one contract: 1.06 miles)
SUFFOLK.....(one contract: 1.13 miles)
STEUBEN.....(one contract: 8.09 miles)

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Bureau in Albany, N. Y., and also at the offices of the division engineers in whose division the roads are located. The addresses of the division engineers and the counties in which they are in charge will be furnished upon request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications and contract agreement.

A. W. BRANDT,
Commissioner of Highways.

## OFFICIAL PROPOSALS

Bids: July 7.

### Water-works

New London, N. H.

Sealed proposals on blank forms addressed to the Water Commissioners, New London, N. H., will be received until 12 o'clock, noon, Tuesday, July 7th, 1925, for doing the following work:

Building earth dam containing about 1,800 cu.yds. of earth and about 75 cu.yds. of concrete. Clearing and grubbing about three-fourths acre at reservoir site, and laying about five miles of 12", 10" and 6 inch wood pipe.

Plans and specifications can be seen at the office of the Water Commissioners. Each bid shall be accompanied by a certified check for five hundred dollars, made payable to Treasurer of Water Commission.

The Board reserves the right to reject any and all bids or to award contracts for any parts of the work.

BOARD OF WATER COMMISSIONERS,
New London, N. H.

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Bids: July 9.

### Raising of Dam and Highway

Woonsocket, R. I.

Sealed proposals endorsed "Proposals for Raising of Dam at Reservoir No. 3, Woonsocket Water Works, and located in the Towns of Smithfield and North Smithfield, R. I., and Raising of Highway near the Stephen Wright Place (so-called)," will be received by the Board of Water Commissioners at their office, City Hall, Woonsocket, R. I., until 7:30 o'clock p.m., Thursday, July 9, 1925, for Furnishing all materials for building and raising of said Dam at Reservoir No. 3, and raising of the Highway near the Stephen Wright Place, (so-called). The Commissioners will be in session at 7:30 p.m. on said date for the purpose of receiving said proposals, or they may be left at the office previous to that time, and at 7:45 o'clock p.m. said proposals will be publicly opened and read.

Each proposal must be accompanied by a certified check, drawn and made payable to the order of the Treasurer of the City of Woonsocket, for the amount of One Thousand ($1,000) Dollars, as security for the execution of the contract, and a bond in form approved by the Board of Water Commissioners of the City of Woonsocket.

The amount of the bond for the fulfillment of the contract shall be the full amount of the contract.

Plans and specifications may be seen and form of proposal obtained at the office of the City Engineer. Proposals must be on forms provided. Prospective bidders may obtain copies of plans by making a deposit of Five ($5.00) Dollars. Said deposit will be returned when plans are returned in good condition.

The right to reject any or all bids is expressly reserved, as the interest of the City may appear.

City of Woonsocket by its Board of Water Commissioners.

JOSEPH O. LEFRANCOIS,
Chairman.
JAMES LONG.
GEORGE E. BOUVIER.

FRANK H. MILLS,
City Engineer.

## OFFICIAL PROPOSALS

Bids: July 9 (extended date).

### Water Works Improvements

Ronceverte, W. Va.

Sealed proposals will be received by the City of Ronceverte, W. Va., at the office of the City Clerk up to 4 p.m., July 9, and then publicly opened and read, for the following water works improvements:

Filter plant having a capacity of 500,000 gallons per 24 hours and consisting of concrete intake, 4-hour settling basin, two filter units, piping, and electric pump room, 36,000 gal. filtered water well, and brick superstructure.

Furnishing and installing filter piping, and equipment; changing present high pressure electric centrifugal pumps to new plant; piping pumps and intake, and electric wiring.

Furnishing two raw water centrifugal pumps, 350 g.p.m. each against a total head of 25 ft. direct connected to 5 hp. electric motors, 220 volts a.c. with starters.

Relining and enlarging with concrete the old concrete reservoir to give a capacity of 250,000 gallons.

All bids must be accompanied by a certified check for not less than five per cent of the amount of bid drawn to the order of City of Ronceverte, W. Va. Checks of unsuccessful bidders will be returned within two weeks after bids have been opened and read.

An approved contract bond in a sum equal to one-half the amount of the contract will be required of each contractor, except in the case of contract to furnish the raw water pumps by manufacturer.

The right is reserved to reject any or all bids or to award contracts separately for each of the four above named items or all to one contractor.

All bids must be addressed to the City Clerk, Ronceverte, W. Va., and sealed and marked plainly on outside of envelope "Bids on Water Works Improvements."

Specifications and plans may be seen at the office of the City Clerk on and after June 15 or may be obtained after that date from the engineer upon the receipt of $5.00 which is the estimated cost of making up and mailing the extra copies. No charge will be made for specifications and bidding form for furnishing pumps.

A. S. WOODHOUSE, City Clerk,
Ronceverte, W. Va.

H. K. BELL, Engineer,
418 Hernando Building,
Lexington, Ky.

Bids: July 6.

### Streets

Bicknell, Ind.

Bids will be received by the City of Bicknell, Indiana, until 7:30 P.M., on the 6th day of July, 1925, for a street improvement, including 14,500 sq.yds. brick, asphalt or concrete pavement; 3,000 sq.yds. of concrete sidewalks; 1,200 lin.-ft. combined curb and gutter and about 8,500 lin.-ft. of sewer, size 12 in. to 30 in., all as set out in the engineer's report now on file with the clerk of said city. For further information and forms write either Myrtle Hollingsworth, City Clerk, or Robt. E. Lind, City Engineer.

**EXCAVATION**

Steam Shovels for rent with crews or work taken by contract.

Dinkeys and cars or teams furnished.

H. C. AMBLER
3717 Old York Road, Philadelphia, Pa.

*"'Luck' and 'Guess' are sorry scouts; 'Map' and 'Compass' have no doubts."*
A. G.

Plan your work then work your plan. With Swart Service part of your plan, you've made a safe beginning.

HARMON V. SWART
*Insurance Advisor—Rate Specialist*
92 William St., New York City

**We Make A Specialty of Laying Water Mains and Installing Water Systems**

We dig and refill trenches for water and gas mains.
Trench Machines and backfillers for rent.

**W. G. FRITZ & CO., Inc., Contractors**
258 Valley Road, WEST ORANGE, N. J.

## OFFICIAL PROPOSALS

Bids: July 27.

### For Furnishing 48 and 36-inch Water Mains for the Metropolitan Utilities District.

Omaha, Neb.

Sealed proposals addressed to the Metropolitan Utilities District, Omaha, Nebraska, and indorsed "Proposals for Water Mains," will be received at the office of the General Manager, Room 206 City Hall, Omaha, Nebraska, until Twelve (12) o'clock noon of Monday, the 27th day of July, 1925, for furnishing, for furnishing and installing, or for installing only, the whole or such part as may be stipulated in the proposal of a 48 inch water main having a total length of approximately 21,970 feet and two 36 inch water mains having a total length of approximately 2,556 feet.

Each proposal must be accompanied by a certified check equal to five per cent (5%) of the amount of the bid made payable to the Metropolitan Utilities District as security for the acceptance of the contract.

The Board of Directors reserve the right to accept any bid, or to reject any or all bids.

Plans, profiles, specifications and forms of proposals and contracts may be obtained at the office of the General Manager, City Hall, Omaha, Nebraska, upon deposit of Five (5) dollars.

METROPOLTAN UTILITIES DISTRICT,
of the City of Omaha, Nebraska.
THEODORE A. LEISEN,
General Manager.

## U. S. Government

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 10, 1925. Sealed proposals will be opened in this office at 3 p.m., July 13, 1925, for the construction of a one-story brick faced Post Office building, approximately 76 by 44½ feet in size at Walden, N. Y. Drawings and specifications may be obtained from the Custodian of the site at Walden, N. Y., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

## U. S. Government

UNITED STATES ENGINEER Office, Montgomery, Ala. Sealed proposals will be received here until 12 o'clock noon, July 25, 1925, and then opened, for removing wreck of barge Avio in St. Josephs Bay, Fla., and wreck of the schooner Alpena in St. Andrews Bay, Fla. Further information on applicatoin.

U. S. ENGINEER OFFICE, Florence, Ala. Sealed proposals will be received here until 11 a.m., July 21, 1925, and then opened, for furnishing and delivering structural steel lock gates, including fittings, castings, etc., for Dam No. 1, Tennessee River, and for the erection of the gates. Further information on application.

U. S. ENGINEER OFFICE, Florence, Ala. Sealed proposals will be received here until 11 a.m., July 7, 1925, and then opened, for furnishing and erecting a Strauss trunnion bascule bridge across the navigation lock of Wilson Dam. Further information on application.

PROPOSALS FOR LEVEE WORK—Office of Third Mississippi River District, P. O. Box 404, Vicksburg, Miss. Proposals for about 360,000 cubic yards of levee work will be received here until 10 a.m., June 29, 1925. Information on application.

U. S. ENGINEER OFFICE, Providence, R. I. Sealed proposals will be received here until 12 o'clock noon, Eastern Standard Time, July 3, 1925, and then opened, for dredging in Bridgeport Harbor, Conn. Further information on application.

U. S. ENGINEER OFFICE, Florence, Ala. Sealed proposals will be received here until 11 a.m., July 20, 1925, and then opened, for furnishing and erecting a Gantry Crane on Spillway section of Wilson Dam. Further information on application.

## U. S. Government

SEALED PROPOSALS, indorsed "Proposals for Quarters, Brooklyn, N. Y., Specification No. 4937," will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 o'clock a.m., July 15, 1925, and then and there publicly opened, for a double quarters for officers at the Naval Hospital, New York (Brooklyn), N. Y. The work includes concrete foundations and basement walls, concrete walks, brick walls above basement, artificial stone, miscellaneous steel and iron work, slate and tin roofing, sheet metal work, lathing and plastering, tile and marble work; lumber and mill work, screens, hardware, painting and glazing, and plumbing, heating and electrical systems. Specification No. 4937 and accompanying drawings may be obtained on application to the Bureau or to the Commandant, Navy Yard, New York (Brooklyn), N. Y. Deposit of a check or postal money order for $10, payable to the Chief of the Bureau of Yards and Docks, is required as security for the safe return of the drawings and specification. L. E. Gregory, Chief of Bureau, May 26, 1925.

U. S. ENGINEER OFFICE, Florence, Ala. Sealed proposals will be received here until 11:00 a.m., July 8, 1925, and then opened, for swinging machinery for navigation lock gates, Wilson Dam, Tennessee River. Further information on application.

U. S. ENGINEER OFFICE, Galveston, Texas. Sealed proposals will be received here until 2:00 p.m., July 17, 1925, and then opened, for constructing and delivering five (5) 35-foot and three (3) 40-foot Motor Launches. Further information on application.

U. S. ENGINEER OFFICE, Florence, Ala. Sealed proposals will be received here until 11 a.m., July 7, 1925, and then opened, for furnishing and erecting a bascule bridge across the navigation lock of Wilson Dam. Further information on application.


# *Why?*

WHY do Government regulations specify that contracts for construction, equipment and supplies over a certain minimum amount must be advertised?

WHY do the laws of most States and Municipalities specify the same thing?

WHY do so many private corporations advertise their big contracts?

WHY do Consulting Engineers, Architects, and others recommend and endorse the advertising of Contracts To Be Let?

## *And—*

WHY are 90% of the advertisements on which **real national competition is desired** published in ENGINEERING NEWS-RECORD?

*In the answers to the foregoing questions you will find unquestionable proof that*

1—**Advertised Contracts** are the accepted form of public letting to insure the awarding of contracts free of prejudice.

2—**Advertised Contracts** guarantee the greatest possible saving through maximum competition and that—

3—ENGINEERING NEWS-RECORD is universally recognized as the one dominant medium of **national** circulation for advertising Contracts To Be Let.

**Are your contracts advertised?**
**Are they advertised in ENGINEERING NEWS-RECORD?**
**If not—WHY?**

0128

# EMPLOYMENT

## AND OTHER BUSINESS OPPORTUNITIES

Positions Wanted, 4 cents a word, minimum charge 75 cents an insertion.
Positions Vacant and all other classifications, 8 cents a word, minimum $2.

*Box Numbers* in care of any of our offices count as 10 words in addition to advertising copy. *Replies* are forwarded each day as received at all of our offices without additional charge. *Discount* of 10% is allowed if one payment is made in advance for 4 consecutive insertions.

THE ABOVE RATES ARE FOR ADVERTISEMENTS SET UNDISPLAYED. FOR DISPLAY RATES SEE "USED EQUIPMENT" HEADING.

E.N.R.

### POSITIONS VACANT

AN engineer wanted thoroughly familiar with the design and operation of dipper and hydraulic dredges (a knowledge of placer dredges desirable but not essential) to investigate existing dredges of these types in this country and to make preliminary designs of a complete line of each type. Employment permanent. State technical training, practical experience and other qualifications, also salary expected. P-831, Engineering News-Record, 7 South Dearborn St., Chicago, Ill.

DESIGNER with considerable experience in reinforced concrete arch and caisson work. Apply by mail giving education, experience, references and salary desired in first letter. P-887, Engineering News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

DETAILERS, designers, estimators, with reinforcing bar experience, wanted for Baltimore, Syracuse and New York. Give details as to age, experience, education and salary expected in first letter. P-891, Engineering News-Record, Tenth Ave. at 36th St., New York.

DRAFTSMEN—Experienced in shop drawings for structural steel. Apply by mail only, giving age, nationality, education, experience and salary expected. Post & McCord, 101 Park Avenue, New York.

DRAFTSMEN wanted, experienced in detailing and checking all classes of steel structures. Permanent position for right man. In replying state age, experience, nationality, salary desired and when available. P-885, Engineering News-Record, 7 So. Dearborn St., Chicago, Ill.

ENGINEERS with municipal experience on water, sewer or streets as combination instrument man and inspector on residences southeastern territory. Give full particulars as to age, experience, references and salary expected in first letter and date can report. Address Engineers, 1408 Citizens & Sou. Bank Building, Atlanta, Georgia.

ENGINEERING graduates. Several recent graduates on bridge and structural steel. Apply by letter, giving age, school, date of graduation, experience, etc. P-888, Engineering News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

### POSITIONS VACANT

ESTIMATOR and draftsman wanted for general contractor's office. Technical education preferred. State age, experience and salary in first letter. Address Box 501, Ashland, Ky.

EXPERIENCED checkers wanted on bridge and structural steel drawings. State age, education, references, details of experience, salary expected. Address Engineer, American Bridge Company, Ambridge, Pa.

EXPERIENCED detailers and checkers on bridge and structural steel. Apply by letter, giving age, education, experience, salary expected. Location Philadelphia. P-889, Engineering News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

FIELD engineers, 27 to 35, in contract bond department. Prefer Asso. Mem. or Mem. Am. Soc. C.E., with at least five years' active construction experience, good personality and ability to talk convincingly. Single men as much traveling is involved. Salary $2,000 to $3,000 a year and expenses as start, depending on previous experience and qualifications; opportunity for advancement to desirable permanent connection. Reply by letter stating age, education, married or single, complete experience, actual duties performed each job or organization and salary received, also references. Interview can be arranged in any large eastern city. E. W. Bush, Engineer, Aetna Casualty & Surety Company, Hartford, Conn.

LEVELMAN, must be a neat draftsman and able to make topographical surveys. Salary $140, with expenses away from headquarters. Apply by letter, giving age, nationality, education, experience, and submit sample of drafting. Erie Railroad Company, Susquehanna, Pa.

### POSITIONS VACANT

OFFICE engineer wanted, location Southeastern states, with experience in designing of water purification plants from one to five million gallons capacity and general municipal work. Must be a good draftsman. State age, education, experience and salary expected in first letter. Also how soon you could report. P-900, Engineering News-Record, Tenth Ave. at 36th St., New York.

RESIDENT engineer wanted with municipal engineering experience. Location in the Southeast. State age, education, experience, salary expected and date you could report in letter of application. P-899, Engineering News-Record, Tenth Ave. at 36th St., New York.

RODMAN wanted; state experience and salary expected. Address 530, Guarantee Trust Bldg., Atlantic City, N. J.

SALES manager for Rocky Mountain region, direct force and sell, best lines construction machinery, must have thorough knowledge technical and practical, steam and gas shovels, cranes, draglines, large mixers, pavers, conveyors, road machinery; must be able handle men; good personality; high class man only; give references, experience, age, salary expected. P-857, Eng. News-Record, 7 So. Dearborn St., Chicago, Ill.

STRUCTURAL draftsman for laying out and detailing structural steel for buildings. State in application, age, nationality, education, experience, salary expected and date available. References will be required. The James H. Tower Iron Works, Providence, R. I.

TWO structural designers wanted, familiar with reinforced concrete factory work. Salary $200 to $300 per month. Also one reinforced concrete detailer. Elwyn E. Seelye, 101 Park Avenue, New York.

**Prepare for a Bigger Job**

Foremen, Timekeepers, Clerks, become Estimators and Construction Managers by spare time study. Full particulars sent upon request.

TYREAN INSTITUTE
15 E. Grove St., Palmer, Mass.

**DRAFTSMAN**

First class Draftsman who is technical graduate with general experience in design of locomotive cranes, excavating machinery or machinery of similar character.
Good opportunity for advancement with well-established concern.

P.-880, Engineering News-Record
Leader-News Bldg., Cleveland, O.

**For the Draftsman with an Eye to the Future**

OTHER WILSON COURSES:
*Reinforced Concrete Engineering*
*Bridge Engineering*
*Structural Steel Designing*
*Structural Engineering*
*Preparatory Course*
*Concrete Drafting and Estimating*

The most plentiful commodity in our industrial life is the average man. Ordinary draftsmen are included. They are just draftsmen. However, the men who specialize in particular branches of work, are those sought after and well paid these days. Specialize! Structural is one branch of drafting with a promising future.

**Structural Drafting**
NOT A SET OF BOOKS—PRACTICAL WORK
*(By Mail)*

This course recognizes the special needs of draftsmen who are now employed at or who contemplate doing structural work. In addition to being a course affording extensive practical experience in drafting, it includes training in structural steel designing which is necessary for a wider knowledge of the student's special field and to enable him to do his work intelligently.

*Write for Literature*

**WILSON ENGINEERING CORPORATION**
College House Offices, Harvard Square, Cambridge, Mass.

Land Surveyor — for acreage surveys and subdivisions.
Architectural Draftsman—design of small houses.
Engineering Draftsman—subdivision improvements.

*The variety of our work is your assurance of steady employment.*

JAMES ANDERSON CO., INC.
*Architects and Engineers*
Lake Forest, Illinois

## POSITIONS VACANT

STRUCTURAL steel draftsman, capable of checking, wanted at once. Must be thoroughly experienced in structural steel details, rapid and accurate. Give full experience, salary required and date available. Carolina Steel & Iron Co., Greensboro, N. C.

TRANSITMEN and levelmen wanted on transmission line surveys and construction. Unmarried, civil engineer graduates preferred. State age, education, practical experience in detail, references, and minimum salary acceptable. Address Chief of Surveys, P. O. Box 1072, Birmingham, Ala.

WANTED: Experienced detailers and checkers of structural steel with at least five years' experience. Apply by letter giving age, nationality and education. Southern Engineering Company, Box 998, Charlotte, N. C.

WANTED immediately for job in Florida, few experienced mechanical and electrical men to prepare plumbing, heating and electrical plans and specifications for large hotel and similar work. Wire, stating qualifications to A. Bentley and Sons Co., Toledo, Ohio.

## EMPLOYMENT SERVICE

EXECUTIVES, engineers, find our individual, confidential service effective in making new connections. Personally conducted by Mr. Jacob Penn, the eminent employment authority, known to leading business men throughout America. Refund agreement protects you. Not agency. Jacob Penn, Incorporated, 305 Broadway, New York.

SALARIED men seeking tentative offers of new connections, are invited to communicate confidentially with the undersigned, who will negotiate overtures without jeopardy to present connections. A professional, ethical service, restricted to high grade positions; established 1910. Retaining fee refunded as provided in our "Refund Contract" if service is not satisfactorily rendered as per contract, and such refund be requested within three months from date remitted. Send name and address only for particulars. R. W. Bixby, Inc., 701 Lockwood Building, Buffalo, N. Y.

## EMPLOYMENT AGENCIES

GENERAL Engineering Agency, Emich Building, Pittsburgh, Pa., require municipal and general draftsmen for extensive development and construction, Florida, Central America, Ohio, Virginia, Michigan, Mexico; also for various industrial plants, Eastern, Western localities. Highway transitmen, inspectors, college instructors for technical and academical institutions, railway draftsmen, chainmen, rodmen, transitmen, structural detailers.

INSTRUCTORS—Good college training or one to three years' experience either mechanical, electrical or chemistry; also professors and assistant professors. Write fully, giving experience in detail. H. H. Harrison & Co., Technical Teachers' Agency, 19 S. LaSalle St., Chicago, Ill.

WANTED, experienced draftsmen and designers, steel, architectural, ornamental iron, bridges and conveyors. Young graduate engineers, all lines. Cleveland Engineering Agency, 904 Rose Bldg., Cleveland, Ohio.

## POSITIONS WANTED

### Civil Engineers

CIVIL engineer and construction superintendent, age 39; 18 years' broad experience railroad and highway location and construction; bridges, concrete work, surveys, plans, estimates, and general office supervision; contractors' superintendent; now employed; wishes position, preferably with contracting or engineering firm. PW-803, Eng. News-Record, 7 So. Dearborn St., Chicago, Ill.

CIVIL engineer, age 31, university graduate; seven years' experience in railroad maintenance and construction work. Desires connection where ability, good personality and hard work are required. PW-825, Engineering News-Record, 7 South Dearborn St., Chicago, Ill.

CIVIL engineer, graduate, three years' bar company experience, design, estimate, inspection reinforced concrete. Two years general building construction. PW-878, Engineering News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

## POSITIONS WANTED

CIVIL engineer, graduate, ten years' experience on surveys, investigations, valuations, construction, highway contract supervising, open for position. Desire responsibility. PW-775, Eng. News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

CIVIL engineer, Assoc. M. A. S. C. E., 33; 2 years in Europe, 3 years in Dutch East Indies, 1 year New York; experience; reinforced concrete, hydro-electric developments, steam plants, irrigation. Now employed. Can also go abroad. PW-892, Engineering News-Record, Tenth Ave. at 36th St., New York.

CIVIL engineer, age 27, married; two years drafting room, four years construction work before entering school. Is a hustler and wishes to locate only with live contractor near New York, Hudson Valley preferred. Employed now. Salary reasonable. PW-905, Engineering News-Record, Leader-News Bldg., Cleveland, Ohio.

CONSTRUCTION manager, civil engineer, age 41; nineteen years' experience heavy construction, including tunnels, sewers, highways and subways. On account of present partners' retirement wishes new connection. Available July 1st. PW-898, Engineering News-Record, Tenth Ave. at 36th St., New York.

CORNELL, C.E., Mem. Am. Soc. C.E., broad experience in the investigation of large power and irrigation projects, including topographical and location surveys, design, specifications, estimates, reports, construction ;open for engagement. PW-865, Eng. News-Record, 7 So. Dearborn St., Chicago, Ill.

GRADUATE civil engineer with managerial ability, transitman and estimator; experienced on foundation and general concrete construction, transmission lines and sanitary sewers. Work with contractor preferred. Box 2, Rockville, Md.

### Designers and Draftsmen

DESIGNER, graduate, experienced highway and railroad bridges of any kind, desires position offering higher opportunities. PW-790, Engineering News-Record, Leader-News Bldg., Cleveland, Ohio.

EXPERIENCED designer-estimator. Graduate engineer, married; with 8 years' experience with contractors, fabricators and consulting firms in responsible charge of designing and estimating structural steel and reinforced concrete. Now with contractor. Available two weeks' notice for position as designer-estimator or chief draftsman. PW-908, Engineering News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

DRAFTSMAN desires position; assessment maps, subdivisions, highway work, track plans, calculations. PW-894, Engineering News-Record, 7 So. Dearborn St., Chicago, Ill.

### Bridge and Structural

STRUCTURAL engineer, nine years' experience, railway, construction, and university teaching desires position as bridge or structural designer. Excellent knowledge theory mechanics, stresses, design. Available two weeks; now employed. PW-833, Engineering News-Record, 7 South Dearborn St., Chicago, Ill.

### Surveyors

SURVEYOR and draftsman, C. E. graduate, varied experience on surveys, designing and estimating of miscellaneous steel and concrete structures, now employed, desires change offering good opportunity. Location immaterial. PW-886, Engineering News-Record, Tenth Ave. at 36th St., New York.

## POSITIONS WANTED

RODMAN desires position with engineering company. Has had six months' experience on highway work. PW-793, Engineering News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

### Superintendents

CONTRACTOR'S superintendent or general foreman wants position; twenty years' experience in heavy railroad work, stone quarry and stripping proposition; good organizer and producer; good references; available June 1. Address Walter Conway, Woodwardville, Maryland.

CONTRACTOR'S superintendent, construction of roads, sewers, heavy excavation. 16,439 Sun office, Baltimore, Md.

CONSTRUCTION engineer or superintendent, experienced all classes building construction; an organizer, familiar with all lines of building trades, estimating, purchasing and detailing, broad business training open for a position as general superintendent, estimator, or any position on construction work requiring technical, practical or executive training. PW-907, Engineering News-Record, 7 So. Dearborn St., Chicago, Ill.

HIGHWAY construction superintendent; fifteen years' experience; best of credentials to ability and character; complete organization ready; positively competent to handle the job in all details; available immediately. PW-247, Engineering News-Record, Leader-News Bldg., Cleveland, Ohio.

SUPERINTENDENT, industrial and educational work preferred, capable hustler, understand work thoroughly. Best of references. Married. Available at once. PW-859, Eng. News-Record, Leader-News Bldg., Cleveland, Ohio.

SUPERINTENDENT of large excavation, rock or earth, sewers, water lines and reservoirs, bridge and foundation work of a difficult nature. Any kind of reinforced or bulk concrete construction, is available immediately with a thorough organization and fifteen years' experience on above lines. Thoroughly competent to handle and man all departments with experienced men. PW-806, Engineering News-Record, Leader-News Bldg., Cleveland, Ohio.

SUPERINTENDENT, on municipal and highway construction. Engineering graduate, age 30, American, married. Experienced on water line, filtration, sewers, sewage disposal, paving, heavy shovel excavation, reinforced concrete and railroad work. Handle several jobs. Can estimate and buy. Have handled to $700,000 work a year. Employed. Present salary $325.00, 12 month base. Want permanent job. Location immaterial. PW-875, Eng. News-Record, 7 So. Dearborn St., Chicago, Ill.

**General Superintendent or Superintendent**

With 22 years of technical and practical experience on high type construction work. Open for engagement on or before July 15th.

*Two Connections in Fifteen Years*

PW-895, Engineering News-Record
Tenth Ave. at 36th St., New York City

**We Will Feed Your Men—**

**We operate boarding camps anywhere.**

**Laborers furnished free where we conduct commissaries.**

We have been boarding men on large out-of-the-way construction jobs for 20 years in all parts of the United States and Canada—and under all conditions. We know the needs and all the little details in connection with such camps that keep labor contented and on the job. It will pay you to turn your labor problem over to us.

**IT IS OUR SOLE BUSINESS**

Consider this when you are ready to recruit a gang for an out-of-the-way job. We can give you the same thorough satisfaction that we have such people as the Frisco Lines, U. S. Army, Atlas Powder Co., Standard Oil Co., I-GN Railroad, etc.

**Central Boarding & Supply Company**

**Coca Cola Building, Kansas City, Mo.**

## POSITIONS WANTED

SUPERINTENDENT state road twelve years. Liberty July 1. PW-855, Eng. News-Record, Tenth Ave. at 36th St., New York.

SUPERINTENDENT, 40. Over 20 years' experience, masonry, brick and heavy concrete construction; bridges, dams, powerhouses, cofferdams, piledriving. Location immaterial. PW-685, Eng. News-Record, 10th Ave. at 36th St., New York.

**Miscellaneous**

ARCHITECT and structural engineer, with many years of experience in municipal, factory and waterworks; age 40 years. PW-881, Engineering News-Record, Leader-News Bldg., Cleveland, O.

CARPENTER or general foreman, A-1 mechanic, with technical training; broad experience on all classes of industrial or commercial buildings; good draftsman; married; age 38. PW-893, Engineering News-Record, 7 So. Dearborn St., Chicago, Ill.

CORNELL instructor desires two months' work. Available July 13th. Associate member A.S.C.E. Licensed. Nine years' practical experience. Salary $225. Fred J. Spry, 605 Mitchell Street, Ithaca, N. Y.

ENGINEER or executive, 25 years' experience on design, construction, management. Water works, filter plants, power plants, dams, reservoirs, canals, municipal work. Mem. Am. Soc. C. E. PW-762, Eng. News-Record, 7 So. Dearborn St., Chicago, Ill.

ENGINEER — Seventeen years' railroads, highways, mines and building construction and maintenance; all kinds of surveys and sub-division layouts; location immaterial; age 36 years. PW-813, Engineering News-Record, 10th Ave. at 36th St., New York.

ENGINEER and executive, experienced construction, maintenance, valuation; technical graduate, aged 42, now employed. Railways, highways, contracting, drainage, mining. All around superintendent. Salary $6,000 per year. PW-883, Engineering News-Record, Real Estate Trust Bldg., Philadelphia, Pa.

ENGINEER-estimator-manager with technical degree and 14 years' structural and architectural experience, invites inquiry from contractor or realtor. Address PW-906, Engineering News-Record, Leader-News Bldg., Cleveland, Ohio.

ENGINEER, widely experienced in design and construction of municipal public works, desires position as city engineer, superintendent waterworks, or connection with large engineering firm engaged in such work. PW-897, Engineering News-Record, Tenth Ave. at 36th St., New York.

GENERAL foreman, 15 years' experience in building bridges, dams, roads, sewers, subways, tunnels, difficult foundations in soft and hard ground. PW-874, Engineering News-Record, Tenth Ave. at 36th St., New York.

M. I. T. graduate, 1923. Desires position in South America with contractor or industrial concern. Native tongue Spanish. PW-884, Engineering News-Record, Tenth Ave. at 36th St., New York.

PROFESSORSHIP in civil engineering. Teaching and practical experience; Western location preferred. PW-909, Engineering News-Record, Tenth Ave. at 36th St., New York.

RAILROAD engineer, experienced designer and draftsman on railroad buildings, estimates, specifications and supervising construction. A. T. Canfield, 2615 Cleveland Ave., Kansas City, Mo.

## SPARE TIME WORK WANTED

GRADUATE engineer, 15 years' experience, desires part-time work designing, estimating, or checking plans for minor steel or concrete structures. Draftsman capable of figuring and plotting field notes and making neat tracings also available. PW-830, Engineering News-Record, 7 South Dearborn St., Chicago, Ill.

**Contractors Attention**

An experienced engineer, with specialized knowledge of concrete bridges, wishes to associate on a participation basis with a reliable energetic firm who can secure the adoption of economic designs and build the same efficiently.

PW-896, Engineering News-Record
Real Estate Trust Bldg., Philadelphia, Pa.

## SALESMAN WANTED

**Sales Engineer**

to sell reinforcing bars to Pennsylvania road contractors. One who has been selling bars, cement or equipment to these contractors will be given preference. Give complete details in first letter as to age, education, experience and salary expected. SW-890, Engineering News-Record, Tenth Ave. at 36th St., New York.

## REPRESENTATION WANTED

**Concrete Man Wanted**

to represent supply house selling form oil, form grease and general concrete supplies. Address P. O. Box 82, Greenville Station, Jersey City, N. J.

## REPRESENTATION AVAILABLE

**Northern India**

Civil Engineer, Assoc. M. Am. Soc. C. E., is available to represent firms who wish to introduce their products and inventions into Northern India, especially the Kashmere State, and who have no agents in those parts. RA-901, Engineering News-Record, Tenth Ave. at 36th St., New York.

## PATENT ATTORNEY

PATENTS—Send for form "Evidence of Conception" to be signed and witnessed. Form fee schedule, information, free. Lancaster and Allwine, 272 Ouray Bldg., Washington, D. C.

## BUSINESS OPPORTUNITIES

**Inventions Commercialized**

on cash or royalty basis. Patented or unpatented. In business twenty-four years. Complete facilities. References. Write Adam Fisher Mfg. Co., 529 Enright, St. Louis, Mo.

**Concrete Engineer**

for estimating and redesign work to take interest in well-established concrete business. Small amount of capital, but not absolutely essential; state experience. Wm. Ficklen, 410 Bond Bldg., Washington, D. C.

**Half Interest**

Partner with $50,000 can take half interest in a new invention (perfectly ventilated building), that will enable you to build a perfectly ventilated damp and dust proof smoke and smell resisting home; savings and satisfactions are immense. Pete Jarnowski, 2134 Alice Place, Chicago, Ill.

**TRAILERS**

Live, aggressive selling force desires agency in East for reliable trailer. At present have agencies for Trench Machines, Backfillers, Shovels, Cranes, etc. Have number of live inquiries.

RA-882, Engineering News-Record
Tenth Ave. at 36th St., New York City

**SELLING FORCE**

having wide acquaintance among contractors in East desires agencies for CONTRACTORS' EQUIPMENT

McCARRON-BAFTERY & CO.
501 Fifth Ave., New York

High Class

**MACHINERY DISTRIBUTORS**

visiting Contractors and Industrials in Illinois, Indiana, Michigan and Wisconsin, seek one more connection with reliable concern.

*Commission and participation travelling expenses*

EPCO, 751 Peoples Gas Building, Chicago

## FOR SALE

U. S. ENGINEER OFFICE, P. O. Box 72, Louisville, Ky. Sealed bids will be received here until 2 p.m. Central Time, July 9, 1925, and then opened for sale of Snagboat "E. A. Woodruff," 863 tons displacement, 220 ft. long over all, 48 ft. 1 in. molded beam with a maximum depth of 4 ft. and a molded depth of 7 ft. 6 in. Maximum beam (over wheel sponsons) 72 ft. 6 in. size of propelling wheel 24 ft. diam. by 10 ft. 9 in. wide, 18 in. and 22 in., buckets. Further information on application.

**Concrete arch designs efficiently made or checked by experienced specialist**

M-818, Engineering News-Record
Real Estate Trust Bldg., Philadelphia, Pa.

FOR SALE

**Plant in Pittsburgh District**

Consisting of building 157x42 ft., boiler house 30x30 ft. Both buildings are of steel and iron construction. Other buildings, of wood construction, are two 32x24 ft. and one 30x20 ft.

600 ft. of railroad siding and 5 acres of real estate.

Plant can be used for chemical manufacture or adapted to foundry work. Will sell with or without equipment.

**Keystone Metals Reduction Co.**
Farmers Bank Bldg., Pittsburgh, Pa.

**Second-Hand Transits and Levels**

Guaranteed in Good Order and Adjustment
*Write for New Bargain List*
WILLIAMS, BROWN & EARLE, INC.
918 Chestnut St., Philadelphia, Pa.
Department D

**LARGEST STOCK OF USED SURVEYING INSTRUMENTS IN THIS COUNTRY**

Satisfaction guaranteed or money refunded. Write for complete list and catalogue of our high grade instruments and supplies for civil engineers, surveyors, mining, builders, contractors, etc.; 40 years' experience in repairing instruments of all makes at reasonable prices. Prompt service.

WISLER INSTRUMENT CO.
607 N. Broadway, St. Louis, Mo.

FOR SALE

**Used Transits and Levels**

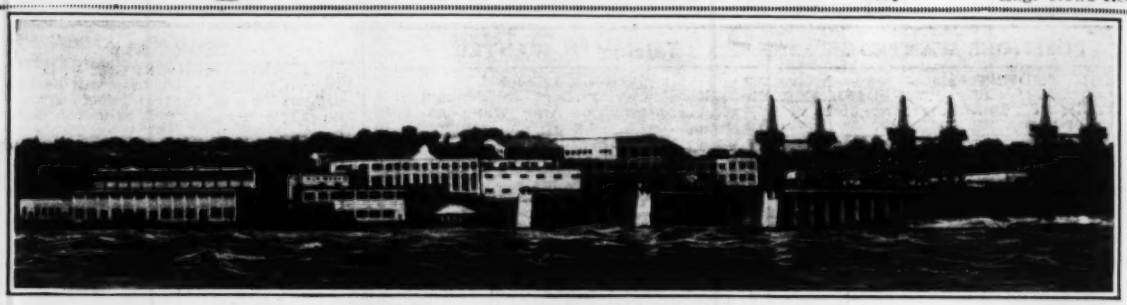
BUFF, 46 Dey St., New York.

Sale—Rent—Repair—Trade
**TRANSITS and LEVELS**
NEW and USED
Field and office complete equipments. Instrument repairing on all makes. Full line of Buff & Buff instruments.
OSWALD GRINER
313 East 10th, Kansas City, Mo.
Branch Store
716 N. 6th, Kansas City, Kan.

**For Rental At $150.00 per Month**

Ingersoll-Rand 1300-ft., steam-driven, straight-line, self-contained, two-stage Air Compressor, ideal for Contractors. Overhauled, guaranteed condition. Immediate delivery.

**Wickes Machinery Co.**
Jersey City, N. J.
*Established 1900*



Former Plant of **GROTON IRON WORKS** Groton, Conn. (New London)

The above plant has been purchased by us and is offered for sale, including all real estate, buildings, equipment and material. This plant, modern in every respect, was formerly operated by the U. S. Shipping Board Emergency Fleet Corporation. It occupies 34 acres of land with over 1800 ft. frontage on New London Harbor.

Extensive wharves and switch tracks on the N. Y., N. H. & H. R. R. provide unusual shipping facilities. 15 buildings provide in excess of 200,000 sq. ft. of manufacturing space. Equipment is all in surprisingly good condition, owing to the fact that it has had very little use, and an almost endless variety of machinery is available.

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**Locomotive Cranes**—McMyler Locomotive Cranes, 8 wheel, 15 ton, 45 ft. boom, standard gauge, fully equipped.

**GROTON IRON LIQUIDATING CO., Groton (New London), Conn.**

# WANTED

**WANTED**

## SHOP BUILDING

Second hand steel frame and siding, about 100 by 200.

**KING LUMBER CO.**
Charlottesville, Va.

**FOR RENT**
**July 1,**

## 20B BUCYRUS STEAM SHOVEL

1—Bucyrus 20 B. high lift revolving steam shovel. Shop No. 4307, caterpillars, ¾-yd. dipper. New January 1925.

**Earth and Rock Equip. Co.**
*Successors to Beck & Babb*
29 So. La Salle St., Chicago, Ill.

## STIRLING BOILERS

12—823 hp. Babcock & Wilcox Stirling Water Tube Boilers, Class M-30, 200 lbs. pressure. Complete with Westinghouse stokers, forced draft fans, Vulcan soot blowers and all accessories. Slightly used and a bargain.

*Write for prices and specifications.*

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Old Hickory, Tennessee

## BOILER BARGAIN

If sold before removal—150-hp. Scotch Marine. Excellent condition. 150 lbs. working pressure. Complete with 60 ft. good stack and all fittings.

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## Wanted Immediately

Want to buy direct from owners, complete equipment for a large Bridge job, including **Hoists, Derricks, Mixers, Pumps, Caterpillar Shovel, Crane, etc.** Give complete details and prices otherwise no attention.

W-903, Engineering News-Record
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**FOR RENT**

## Keystone Excavator

Steam power, caterpillar tractor with operator.

**F. D. LEFFINGWELL, Montclair, N. J.**

## TRANSFORMERS

6—Pittsburg Outdoor Type 600 kva., 6600-2200 v., 60 cy., single phase.
3—Westinghouse Outdoor Type, 100 kva., 2400-240-120 v., 60 cy., 2 ph., Type S.

**NASHVILLE INDUSTRIAL CORPORATION**
Old Hickory, Tennessee

**FOR SALE**

## FORD TRACTOR

1—Good condition, also other plant, one-half cost of new.

**EASTOVER CONSTRUCTION CO.**
Herkimer, N. Y.

**FOR SALE**

## ELECTRIC HOISTS

1—40-hp. Lambert; 1—60-hp. Lambert; 2—40-hp. Lidgerwoods, single drums, rope speed at drum 600 to 1,000 ft. per minute, 220 v., direct current, in A-1 condition.

**H. S. GARDNER, INC.**
537 West 20th St., New York, N. Y.
Telephone: Chelsea 9312

**WANTED TO RENT**

Several **Pneumatic Caulking Hammers** and **Pneumatic Back-Fill Rammers.**

**CITY WATER & LIGHT DEPARTMENT**
Mount Airy, N. C.

## LOCOMOTIVE CRANE

**FOR SALE OR RENT**

1—O & S, 22-ton, 8-wheel, std. ga., 55-ft. boom, 1½-yd. bucket, practically new.

**RENNOLDS EQUIPMENT COMPANY**
718 Fisher Bldg., Chicago, Ill.

**FOR SALE**
**1924 Multi-Foote**

## PAVER

practically new; full length caterpillar; boom and bucket discharge.

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**WANTED**

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1—1½-Cubic yard Light Draft, for work on tidewater in Florida.

Address W-843, Engineering News-Record
Real Estate Trust Bldg., Philadelphia, Pa.

## Centrifugal Pumps

6—14-in. Worthington Class B with 300 h.p. Motor.

4—14-in. Allis-Chalmers Type S with 300 h.p. Turbine.

6—16-in. Allis-Chalmers Type S with 300 h.p. Turbine.

*Write for complete list of pumps and prices*

**Nashville Industrial Corporation**
Old Hickory, Tennessee

## STEAM SHOVELS

**FOR SALE OR RENT**

1—¾-yd. Type B, Erie on caterpillars, High lift, 16-ft. Dipper Stick Serial No. 15661, New 1921.
1—¾-yd. Type B, Erie on caterpillars, High lift, Serial No. 1769, New 1922.
2—¾-yd. Type B, Erie on Traction Wheels, High lift, Serial Nos. 805 and 1254, New 1920.
1—¾-yd. A1 Thew on Traction Wheels, Serial No. 1428, New 1918.
1—No. 4 Keystone Excavator with Trench Bucket and Skimmer Scoop, Serial No. 4296, New 1922.

**T. H. LETSON CO.**
50 Church St., New York

## CHAS. KRISER, *Auctioneer*

## *Announces Absolute Auction Sale of*

# Woodworking and Ironworking Machinery Equipment, Supplies and Real Estate

**of the formerly**

# PENDLETON SHIP YARD

**on Tuesday, June 30, 1925, at 12.30 P. M. (Daylight Saving) on the premises at**

## MYSTIC, CONN.

Hilles & Jones No. 1½ Punch and Shear 36-in. Throat, Hilles & Jones Flanger 12-ft., 12-in., 14-in., 16-in. and 20-in. Drill Presses, Chambersburg 1500 lb. Single Frame Steam Hammer, Adt & Shuster Riveters, Forges, Air Compressors, Wet Grinders, 40 Pneumatic Drills, Little David and Little Giant and Air Hammers—Arbor Presses to No. 5. Acme 1-in. Bolt Cutter.

WOODWORKING MACHINERY CONSISTS OF 8-in.—4 Side Inside Moulder, Fay & Egan 7-ft. Swing Saw, Egan & Witherby Single Borers, 24-in. Invincible 3-drum Sander, 1—No. 361 Fay & Egan Band Saw Mill with log carriage and equipment, 1 Witherbee Wood Turning Lathe, Woods 24-in. Single Head Planer, 1 Fay & Egan No. 290 Timber Dresser, 1—48-in. Atlantic Works Bevel Ship Band Saw with Lumber Rollers, Rogers 1 and 2 spindle Variety Shapers.

1—Fay & Egan No. 311 Ball Bearing Bevel Ship Band Saw, 15—New Dean, Worthington, Hyde & Buffalo Double Action Pumps, 10—New Titan & Brandingham Double Action Steam Winches, 100,000 ft. of Lumber up to 28-in. x 28-in. x 120-ft. long, 50,000 oak Trenails, 9000 New Blocks up to 20-in., one, two and three sheaves, 2800 lbs. Lignum Vitae in logs.

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STEAMER FULLY EQUIPPED, only 5 years old, 1500 gross tons, 2 New Lidgerwood Double Acting Compound Towing Engines, 12 x 14 single drum, Serial Nos. 637 and 638.

**The Shipyard is located a few miles from New London, Conn.**
**Trains leave Grand Central Station, New York City, via N. Y., N. H. & H. Railroad 8.35 A. M. (Daylight Saving Time) and arrive at Mystic, Conn., 12 o'clock noon (Daylight Saving Time.)**

***Write for Catalogue Now! !***

**Sale under management of**

## INDUSTRIAL PLANTS CORPORATION

***National Liquidators***

**25 Church Street, New York City**

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## RECEIVERS' AUCTION SALE

# Atlantic Tar & Chemical Co., Ltd.

**BAYWAY (ELIZABETH) N. J.**

## Wednesday, July 8, 1925 at 11 A.M. (D. S. T.)

**Valuation Over One Million Dollars**

**Complete Plant for Manufacture of Coal Tar Products Comprising:—**

11 Acres Land: Railroad Siding; 26 Buildings; 62 Tank Cars; About 300 Steel Tanks; Stills, Kettles; Filters; Heaters; Coolers; Ice Plant; Pumps; Electrical Equipment; Fire Equipment; Trucks.

**Note:**—Will be offered as a whole and in suitable parcels or units.
By order of the U. S. District Court.

**Complete Catalogue Free on Request**

**Hon. A. A. Stein, Willard Lynch, Esq.** } **Receivers**

**McCarter & English, Esqs.**
**Solicitors for Receivers**

**Herbert "Action" Segal, Auctr., Newark, N. J.**

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## Bear Mountain Hudson River Bridge Equipment

**4—No. 248 Leyner-Ingersoll Drifters fitted for 1¼-in. Hollow Round Steel, 24-in. feed, equipped with A-86 Tripods complete with 3 "C" weights.**

**1—Ingersoll-Sergeant Type F194 Steam Drill. Used only a short time.**

**1—Ingersoll-Rand Type 10H Little Tugger Air Hoist.**

**8—Ingersoll-Rand Type 1H Little Tugger Air Hoists.**

**7—3-ton Jinniwinks—Booms 8x8x25 ft.—Sills 6x8x15 ft.—Legs 6x8x15 ft.—Back 6x8x10 ft.**

**2—50-hp. Crocker-Wheeler Slip Ring Motors, 3 ph., 60 cy., 220 v., 700 r.p.m., with reversing controllers.**

**2—Ingersoll-Rand Imperial Type 10 Steam Air Compressors, 2 stage direct connected Corliss engine driven operating at 140 r.p.m. with capacity 2381 cu. ft. air per minute.**

**J. V. W. REYNDERS, 120 Broadway, New York City**
**TELEPHONE RECTOR 3073**

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FOR SALE

## NEW WIRE ROPE

12 Reels ⅜ Hoisting Rope, 6x19, in 5,000-ft. lengths; 4,500 ft. ⅜ Iron Haulage Rope, 6x7; 20,000 ft. 1⅝ Galvanized Plow Steel, 6x12, in 650-ft. lengths; 5 reels 2¼ in. dia. Plow Steel, 6x19, 1,250 and 1,500 ft. lengths; THIS IS NOT SURPLUS GOVERNMENT ROPE; direct from manufacturer; GUARANTEED low prices.
FS-902, Engineering News-Record,
Tenth Ave. at 36th St., New York City.

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# REBUILT EQUIPMENT

## Railroad—Contractors and Industrial

**Locomotives,** in 4-ft. 8½-in. gauge, 36-in. ga., 30-in. ga., and 24-in. ga. in all weights and types from 3 tons to 263 tons. (Steam and Gasoline).
**6—Passenger Coaches,** Steel Platforms and Draft Rigging.
**2—Combination,** Passenger and Baggage Cars.
**1—Combination,** Mail and Baggage Car. Steel Underframe.
**3—Steam Shovels,** Standard Railroad.
**5—Locomotive Cranes**—Standard Gauge, Caterpillar and Road Wheel.
**Dump Cars**—4-ft. 8½-in. gauge, 36-in. ga., 30-in. ga., and 24-in. ga.
**Road Rollers**—10-ton. 2 Buffalo-Springfield; 1 Kelly-Springfield, and 1 Monarch.
**Lakewood Track**—41,250 ft. in 15-ft. sections with five riveted ties and one joint tie per section; also curved track.
**Rail:** 2500 tons of 100 lb., 2000 tons 75 lb., 300 tons 67 lb., 500 tons 40 lb., etc.
**Paving Machines; Concrete Mixers; Hoisting Engines; Derricks; Boilers; Rock Crushers** and a large amount of miscellaneous Contractors' Equipment.

***Write or wire for description and prices.***

**J. G. SKELTON CO., Inc.**
**Ry. and Power Bldg., Richmond, Va.**

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E. N.-R.

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## *Construction* WE BUY—SELL—TRADE—RENT *Equipment*

### CRANES

1—O & S Trac. Wheel, 30 ft. Boom.
1—Erie "B" 32 ft. Boom ⅜-yd. Williams bucket.
2—O & S 22-Ton, 55-ft. Booms, with 1½-yd. Buckets.

### SHOVELS

1—Northwest 105 with Dragline attachments.
2—Marion, Mds. 21 and 31, full Cat.
10—Bucyrus, R.R. Trucks, Caterpillar and Traction Wheels, from ¾ to 4-yd. cap.
8—Marion R.R. Trucks, Caterpillar and Traction Wheels, from ¾ to 4-yd. cap.
1—Type "B" Erie, High Lift Boom.
1—Model 4 Keystone Excavator.
2—Type "O" Thew, Horizontal Crowding booms on trac. wheels. No reasonable offer refused.

### BUCKETS

1—1-yd. Hayward Clam Shell.
1—½-yd. Owen with teeth.
20—Controllable Bottom Dump.

### PAVERS AND MIXERS

1—Foote Paver 16-E Steam Power.
3—Koehring Bldg. Mixers, 21-S Steam Power.
1—Rex 21-S Steam Power, Bldg. type.

### PUMPS

1—Dean Hor. Duplex, size 10x7x12.
1—Morris Cent. Sand, 12x12, Belt Drive.
1—Morris 4 in. Cent. Water Pump, Steam Eng.
1—Morris 6 in. Cent. Sand Pump, Steam Eng.
1—No. 7 Pulsometer Pump.
4—Brand new Aldrich, Triplex, 3½x4, equipped with 15 hp. 4-cylinder LeRoi Motors.

### PILING HAMMERS

1—No. 5 Vulcan Sheeting, rebuilt.
2—No. 9 McKiernan-Terry Steam.
3—Drop Hammers.
1—No. 7 McKiernan Terry.

### CRUSHER

1—Gates No. 5.

### BOILER

1—80-hp. Loco. Type, Butt Strapped Joint.

### AIR COMPRESSORS

1—Fairbanks-Morse 8x8 belt drive with 20 hp. A.C. Motor.
1—Gardner 6x6 Duplex on trucks, with tank and A.C. Motor.
2—Chicago Oil Driven on Trucks, cap., 212-ft.

### HOISTING ENGINES

4—8¼x10 D/C D/D's with and without Boilers.
1—Mundy 8x12 3-Drum with Boiler.
9—7x10 D/D's Am. La. Ldg. Mundy
1—8¼x10 3/D Stroudsburg.
1—7x10 3/D Stroudsburg.

### CARS

20—Std. Ga. Western 12-yd. Air Dump.
10—24 Ga. Western Steel Flat.

### LOCOMOTIVES

2—24 Ga. Plymouth Gas Power
1—21-ton Davenport Saddle Tank, Std. Ga.
1—42-ton Shay Geared.
4—6-ton 24-in. Ga. Whitcomb Gas.
Also 4 Std. Ga. ranging from 20 to 50 tons.

### DRAG LINES

5—Monighan Models 1-T, 2½ and 3-S.
2—Bucyrus Class 14 and 24.

### ROAD AND PAVING EQUIPMENT

1—Dunn 18 ft. Finishing Machine.
2—Holt caterpillar tractors, 5 ton.
3—Miles of 24 Ga. Portable Track.
4—Rollers 3 to 10 ton.
16000 lin. ft. of 2-in. Pipe.
1—Adams Leaning Wheel 10 ft. Blade Grader.
1—Austin 7 ft. Blade Grader.
8—2½ Western 2 Wheel Scrapers.
4—Baker 4-wheel Maney Scrapers.
1—18-ft. Lakewood Finishing Machine.
1—100-ton Johnson All Steel Hopper.
2000 Lin. ft. Blaw Knox 9-in. Road Forms.

### DERRICKS

1—Wood Stiff Leg, 60-ft. boom.
2—Wood Stiff Legs, 60-ft. booms, bucket handling.
4—Steel Guy, 115-ft. masts, 100-ft. booms, cap., 15 tons.
1—Insley Steel, 10-ft. Guy.
1—Steel Stiff Leg, 100-ft. boom, cap., 7 tons.
20—Others ranging from 3 to 20 tons.

### TRENCHING MACHINES

1—Parsons Cat. will dig 16-ft. deep.
1—Buckeye Ditcher Wheel Type, cap., 6-ft.
1—"00" Austin Cat., cap., 15-ft.

### CONCRETE SPOUTING & TOWERS

1—Insley 120-ft. Steel Tower, with 24-ft. Bucket and Hopper, and 140-ft. of Spouting.
We have several Insley & Lakewood Towers; also miscellaneous lot of Spouting, Buckets and Hoppers, for Wood Towers.

**If you don't find listed what you need write us. We have a complete line of equipment.**

**RENNOLDS EQUIPMENT CO.**

718 FISHER BLDG.
CHICAGO, ILL.
PHONE: RANDOLPH 4134

# CLAPP, RILEY & HALL EQUIPMENT CO.

12 AND 14 SOUTH CANAL STREET

CHICAGO

## GUARANTEED EQUIPMENT—FOR SALE or RENT

**All equipment overhauled in our shop is furnished in guaranteed condition, subject to thirty days' trial in service.**

### STEAM SHOVELS

2—Type B Erie. Shop Nos. 1219 and 143, mounted on traction wheels, ¾-yd. dipper.
1—Type O Thew. Shop No. 1777, extra high lift, 2-3-yd. dipper, traction wheels.
1—18B Bucyrus. Shop No. 1870, traction wheels, ⅞-yd. dipper.
1—45-C Bucyrus. Shop No. 1202. Railroad type, 1¾-yd. dipper.
2—70-C Bucyrus. Shop Nos. 1195 and 1197, 2½-yd. dippers.
3—70-ton Bucyrus. Shop Nos. 939, 977 and 1233, 2½-yd. dippers.
2—60-C Bucyrus. Shop Nos. 1286 and 1388, 2½-yd.
2—Model 60 Marion. Shop Nos. 1301 and 2238, 2½-yd. dippers.
1—Model 75 Marion. Shop No. 2112, 2½-yd. or 4-yd. dipper.
1—Model 80 Marion. Shop No. 1312, 4-yd.
1—95-C Bucyrus. Shop No. 1235, 4-yd. or 5-yd. dipper.

### STEAM SHOVEL PARTS

1—Boom for Marion 60 or 61 Shovel, length 35-ft., 22-ft. dipper arm, 1½-dipper, long jack arms, etc.

### SIDE DUMP CARS

26—16-yd. Western Air Dump Cars.
23—12-yd. Western Air Dump Cars, 19-ft. beds, box girder doors.
31—12-yd. Western Air Dump Cars, 19-ft. beds, box girder doors, vertical dump cylinders, 60,000 lb. capacity trucks.
37—12-yd. Western Air Dump Cars, Truss-rod doors, 26-ft. beds.
4—12-yd. Oliver Hand Dump Cars.
12—8-yd. Western, 36-in. gauge, double truck cars.
19—5-yd. K. & J. 36-in. gauge, steel draw sills and steel lined wood beds.
8—4-yd. K. & J. 36-in. gauge, steel draw sills, box girder doors.
7—4-yd. Western, 36-in. gauge, steel beam cars.
42—4-yd. Western 36-in. Gauge Cars.
8—4-yd. Continental 36-in. Gauge Cars.

### SPREADER CARS

1—Std. gauge 100,000 lb. capacity Jordan Air Spreader. Shop No. 503.
1—36-in. gauge Oliver Spreader Car.
1—36-in. gauge Western Spreader Car.

### LOCOMOTIVES—Standard Gauge

1—19x26 Baldwin 6-wheeled Switcher, with tender. Shop No. 48215. New 1918. Weight 62 tons. 180 lb. steam pressure.
1—19x24 Baldwin 6-wheeled Saddle Tank. Shop No. 49553, built 1918. Weight 67 tons, air brakes, 180 lbs. steam pressure.
1—18x24 Brooks 6-wheeled Switcher, with tender. Shop No. 1778. Weight 50 tons.
1—17x24 Davenport 6-wheeled Switcher, with tender. Shop No. 1268. Steam pressure 180 lbs. Weight, 47 tons.
1—17x24 Schenectady 6-wheeled Switcher, with tender. Shop No. 2956. Weight, 44 tons.
1—16x24 Porter 6-wheeled Saddle Tank. Shop No. 6065. Built 1918. Weight, 56 tons. 180 lbs. steam pressure.
1—16x24 Vulcan 4-wheeled Switcher, with tender. Shop No. 1764. Steam pressure 180 lbs. Weight, 40 tons.
1—16x24 Davenport 4-wheeled Switcher, with tender. Shop No. 860. Steam pressure, 170 lbs. Weight, 38 tons.
1—16x22 C. M. & St. P. Ry., Class J-2, 4-wheeled Switcher. Weight, 32 tons.
1—11x16 Davenport 4-wheeled Saddle Tank Locomotive. Shop No. 1027. Weight, 20 tons. Steam brakes.

### 36-in. Gauge

2—11x16 Davenport Dinkies. Shop Nos. 2020 and 2027. New in 1925, used six weeks. Weight, 21 tons.
1—11x16-in. Vulcan Dinkey. Weight, 21 tons. New in 1922.
1—11x16-in. Davenport Dinkey. Shop No. 710. Weight, 20 tons.
2—10x16-in. Davenport Dinkies. Shop Nos. 1400 and 1417. Weight, 19 tons.
4—10x16 Porter, 4-wheeled. Weight, 18 tons.
1—10x16 Vulcan, 4-wheeled. Weight, 18 tons.
1—9x14 Vulcan Dinkey. Shop No. 1675. Weight, 14 tons.
2—7x10 Davenport, 4-wheeled, saddle tanks.

### 24-in Gauge

2—7x12 Davenport Dinkies. Shop Nos. 1411 and 1524. Weight, 9 tons.
1—6x10 Davenport Side Tank Dinkey. Shop No. 1307. Weight, 7 tons.

### DRAGLINE EXCAVATORS

3—Class 24 Bucyrus Steam. Shop Nos. 3445, 3500 and 3671, skids and rollers, 85-ft. to 100-ft. booms; 3½, 4½ or 5-yd. Page buckets.
1—Class 20 Bucyrus, steam. Shop No. 813, skids, 85-ft. boom, 3-yd. Page bucket.
2—Class 14 Bucyrus, steam operated, either coal or oil burner. Shop Nos. 748 and 3706, caterpillars, 60-ft. booms, 2-yd. Page buckets.
1—Model 210 P & H, gasoline. Shop No. 1077. New 1920, 40-ft. boom, 1¼-yd. Page bucket, caterpillars.

### CRANES

2—Type "B" Erie Cranes. Shop Nos. 1064 and 1219. 32-ft. and 36-ft. boom, bucket-operating drums, ¾-yd. Williams clam shell.
1—10-ton Industrial, 4-wheeled. Shop No. 1989. 40-ft. boom, bucket operating.
1—20-ton McMyler, 8-wheeled. Shop No. 388, 45-ft. boom, 1¼-yd. O & S clam.
1—Gantry Crane. New in 1919: 40-ft. boom, 15-ton cap., at 18-ft. radius; 7-ft. 10½-in. gauge, 12-ft. wheelbase, self-propelling. Base of boom 17-ft. above track. Bucket-operating drums. Weight, 50 tons.

### MISCELLANEOUS

1—8-ft. Austin Giant Road Grader.
1—6x10 D.C., D.D. Lidgerwood Hoist, with 36x90-in. boiler.
1—6½x10 D.C., D.D. American Hoist, with butt strapped boiler.
1—7x10 D.C., D.D. Lambert Hoist, without boiler.
1—7x10 D.C., D.D. Flory Hoist, without boiler.
2—1½-yd. Page Dragline Buckets.
1—1½-yd. Brown Hoist Clam Shell.
4—Mead-Morrison 1½-yd. Clam Shells.
2—1¼-yd. O. & S. Coal Loading Clam Shells.

## PITTSBURGH, PA., OFFICE

## Beck, Riley & Hall Equipment Co., 458 Union Trust Building

### STEAM SHOVELS

1—Model 29, Osgood Shop No. 1170 on caterpillar mounting, ⅞-yard dipper.
1—14-B Bucyrus Shop No. 0000, on traction wheels, ⅝-yd. dipper.
1—Standard Type "B," Erie Shop No. 206, on traction wheels, ¾-yd. dipper.
3—Model 28, Marion Shop No. 3134, 3137, 3229, on traction wheels, ⅝-yd. dipper.
4—Model 60, Marion Shop, No. 1995, 1999, 2059, 2372, railroad type, 2½-yd. dipper.
1—70-ton Bucyrus Shop No. 0000, railroad type, 2½-yard dipper.

### STEAM SHOVEL PARTS

1—19-ft. 6-in. boom, 12-ft. sticks and ditcher bucket for Type B Erie Shovel.
1—22-ft. dipper stick for Type B, Erie Shovel.

### SIDE DUMP CARS

24—4-yard Western, 36-in. gauge.
8—K. & J. 4-yd., 36-in. gauge.
8—2-yard Western, 36-in. gauge.
10—6-yd. K. & J. Std. gauge.

### SPREADER CAR

1—Std. gauge Western Spreader Car.

### LOCOMOTIVES, 36-in. Gauge

2—10x16 Vulcan, 4-wheel Saddle Tank, Shop No. 3266 and 1394.
4—10x16 Porter, 4-wheel, Saddle Tank.
2—7x12 Davenport, 4-wheel, Saddle Tank, Shop No. 1566 and 1567.

### LOCOMOTIVE CRANES

2—Type B McMyler 23-ton capacity, with 50-ft. boom, one with 20-ft. extension, Shop No. BC-2015 and BC-2108, Serial No. 3239 and 3263, 8-wheel MCB trucks, A.S.M.E. boiler.
1—Type J McMyler, 35-ton capacity, with 70-ft. boom, Shop No. BC-2376, Serial No. 3312, 8-wheel MCB trucks, A.S.M.E. boiler.

### RAILROAD DITCHERS

1—American Railroad Ditcher, No. 459.
1—Type B Erie Railroad Ditcher No. 2485, with 36-ft. boom and clamshell equipment, including bucket.

### CLAMSHELL BUCKETS

1—1½-yd. Williams **Favorite** No. 3508.
4—¾-yd. Williams **Hercules.**
1—¾-yd. Williams **Favorite.**
1—¾-yd. Erie **Peerless.**

### MISCELLANEOUS

1—Lambert 8½x10 Double Drum with boiler.
3—8½-in. Westinghouse Cross Compound Air Compressors.
2—9½-in. Westinghouse Single Compressors.
1—11-in. Westinghouse Single Compressors.
42—No. 8 Milburn Carbide Lights, 8,000 Candle Power.
7—No. 12 Milburn Carbide Lights, 12,000 Candle Power.
24—Milburn **Reliance** Carbide Lights, 1000 Candle Power.
12—Milburn **Builders** Carbide Lights, 500 Candle Power.
1—No. 80 **Buhl** Portable Air Compressor.
1—No. 55 **Buhl** Portable Air Compressor.

# FOR SALE OR RENT

## STEAM SHOVELS

1—70-C Bucyrus. Shop No. 1749. Standard gauge, railroad, 2½-yd. dipper.

1—18B Bucyrus, revolving. Shop No. 1764. Traction wheels, ⅞-yd. dipper.

1—Type B Erie Revolving Steam Shovel, traction wheels, standard boom, ¾-yd. dipper.

1—Model 212 Marion (revolving). Shop No. 4620. New Sept. 1923, mounted on trucks, 55-ft. boom, 34-ft. dipper stick, 1¾-yd. dipper.

1—Model 28 Marion, standard revolving. Shop No. 2804, traction wheels, ⅝-yd. dipper.

## LOCOMOTIVE

1—Type 060 Brooks, 40-ton, 6-wheel Switcher, standard gauge, sloping tender.

## DRAGLINES

1—Class 210 P & H Gasoline. No. 1349, on caterpillars. 76-hp. Twin City Engine. 48-ft. boom, 1-yd. bucket.

1—Page oil driven, mounted on trucks, 100-hp. twin cylinder, Charter Engine, 72-ft. boom, 2½-yd. Page bucket.

1—Class 14 Bucyrus, steam operated, on caterpillars, 60-ft. boom, 2-yd. Page bucket. (New July, 1922).

1—Class 24 Bucyrus, steam operated, skids and rollers, 100-ft. boom, 3½-yd. bucket.

1—Monighan 2-T Walker. Oil driven, 60-ft. boom, 2 cu. yd. bucket.

1—No. 2 Monighan, steam operated, skids and rollers, 70-ft. boom, 2-yd. bucket.

1—No. 2 Monighan, steam operated, skids and rollers, 80-ft. boom, 2-yd. bucket.

## CRANE

1—Northwest Model 105 gasoline. Standard caterpillar. 40-ft. boom, 1-yd. clam shell bucket.

## TRACTORS

7—5-ton Holt Caterpillars.
(These tractors have never been used except for small amount of demonstrating.)

## CYCLONE DRILLS

2—No. 14 Junior Gasoline Traction Big Blast Hole Drills. 5-in. bits. Late machines.

## MISCELLANEOUS

1—¾-yd. dipper complete for Model 18 Osgood Shovel.

*The above list is constantly changing. No matter what your machinery requirements are, write us—we may have it.*

**EARTH & ROCK EQUIPMENT CO.,** *Successors to* BECK & BABB **29 So. La Salle St., Chicago, Il.**

## Direct Connected Generator Set

1—Bullock 265 K.V.A. Alternating Current Generator Set, 220 v., 60 cy., 3 ph., 383 amp. at 150 r.p.m. direct connected to Buckeye High Speed Engine, 18x24, complete with oiling system, 9½ K.V.A. General Electric Exciter, switchboard, instruments, switches and rheostat.

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Old Hickory, Tennessee

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47-ton Std. Gauge Baldwin 4 Driver Saddle Tank, 44-in. drivers, 165 lb. steam pressure, steam brakes, straight and automatic air, electric head lights. Overhauled. First-class. Ready to ship from Chicago.

**HYMAN-MICHAELS COMPANY**
Peoples Gas Bldg., CHICAGO, ILLINOIS. Railway Exchange Bldg., ST. LOUIS, MISSOURI.

## Gasoline Crawler Crane

1—P. & H. Serial No. 1602. Used but 5 months. 38 ft. Boom, arranged for Clamshell or Dragline work.
Also 21E Koehring Paver—Hoists, Derricks, Scows—Dredges.

**T. H. LETSON CO.**
50 Church St., New York

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Road-Rollers; Pavers; Shovels; Keystone Excavators; Locomotives; Track; Dump and Flat Cars; Hoists; Cranes; Graders; Finishers.

*All necessary Equipment for complete plant.*

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FOR SALE OR RENTAL

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14-in. Jeansville, with extension base, direct driven by 8-in.x8-in. Sturtevant Vertical Engine, capacity 5400 gallons, 15-foot head.

12-in. Dayton-Dix, with coupling for direct connection, capacity 3,000 gallons, 15-foot head. Bronze impellor.

10-in. Ames, Bronze Impellors, direct driven by Ames Vertical Engines, capacity 2,000 gallons, 18-foot head.

8-in. Kingsford Open Impellor, direct driven by vertical engine. Capacity 1,300 gallons, 15-foot head.

6-in. Morris, open impellor, direct driven by vertical engine. Capacity, 1,000 gallons, 15-foot head.

6-in. Wickes, open impellor, direct driven by vertical engine. Capacity, 1,000 gallons, 15-foot head.

6-in. Fulton, open impellor, direct driven by vertical engine. Capacity 1,000 gallons, 15-foot head.

5-in. Lawrence, open impellor, direct driven by "Dake" steam motor. Capacity 700 gallons.

4-in. Platt, closed impellor, direct driven by 7½ Hp. 220/440/500 volt, 3 phase, 60 cycle motor. Capacity 500 gallons, 30-foot head.

3-in. Morris, three stage, brass impellors, with hose for direct connection to motor. Capacity 200 gallons. 250-foot head.

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*Established 1900*

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100—80,000 lb. capacity, std. gauge. All new woodwork. 41 ft. long.

60—80,000 lb. capacity, std. gauge. Steel draft arms. 36 ft. long.

35—100,000 lb. capacity, std. gauge. Steel underframe. 40 ft. long.

## GONDOLAS

200—80,000 lb. capacity, std. gauge. Steel draft arms. 36 ft. long.

75—100,000 lb. capacity, std. gauge. Steel underframe. 40 ft. long.

35—100,000 lb. capacity, std. gauge. All steel self clearing hoppers. New bodies 1923.

## BOX CARS

35—60,000 lb. capacity, std. gauge. 37 ft. long. Steel center sills.

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Locomotives, Locomotive Cranes, Steam Shovels and Draglines ready for prompt shipment.

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## RELAYING RAILS

25 tons 30 lb. with splice bars
100 tons 80 lb. with splice bars
150 tons 90 lb. with splice bars
200 tons 100 lb. with splice bars
10,000 ft. 24 in. gauge, 20 lb. portable track.

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Commercial Trust Bldg., Philadelphia

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1—Stickle 400 B.H.P. No. 4 Open Coil Feed Water Heater and Purifier complete.

1—American 400 B.H.P. No. 18 Feed Water Heater, complete.

3—Warren Webster Open Type Feed Water Heaters, 11,000 B.H.P. capacity each.

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Old Hickory, Tennessee

# "WE BUY—REBUILD—SELL OR RENT"

### CRANES

1—15-ton O & S, 8-wheel M. C. B., 40-ft. boom, bucket operating.

1—Brownhoist Combination Crane and Dragline, 40-ft. boom, ¾-yd. bucket, caterpillar, steam.

1—O & S 7-ton Crane, 30-ft. boom, ¾-yd. clamshell bucket, traction wheels.

1—Byers Auto Crane, 30-ft. boom, ¾-yd. bucket, traction wheels, steam.

### CONCRETE MIXERS

43—Concrete Mixers, sizes 56-S, cap. 2-yd.; 28-S, cap. 1-yd.; 21-S, cap. ¾-yd.; 14-S, cap. ½-yd., and 10-S, cap. 1¾-yd. With steam or electric power with side loaders or batch hoppers. Following makes: Marsh-Capron, Koehring, Milwaukee, Ransome, Smith, Smith-Chicago, Rex, Lakewood, Foote, Cube or Oshkosh.

38—7-S, cap. 1 bag, with low charging platforms, with gasoline engines.

### STEAM HOISTS

12—Three-Drum Hoists, with or without boilers. Sizes, 9x12, 9x10, 8¼x10, and 7x10, with separate swingers for derrick work. All makes.

60—Two Drum Hoists, with or without boilers. Sizes, 12x12, 10x12, 9x10, 8¼x10, 7x10, 6¼x10, 6x8, and 5x8. Can be equipped with holding drum for bucket work.

## SPECIAL

### STEAM SHOVELS

2—78C late '23 models, 30-ft. boom, 19-ft. dipper stick, 3-yd. dipper, one on railroad trucks, one on caterpillars.

1—50B Bucyrus full revolving on caterpillars, 26-ft. boom, 17-ft. dipper stick, 1¾-yd. dipper, new November, 1923.

### LOCOMOTIVES

3—Porter 36-in. ga., 18 ton, saddle tank, 10x16 cylinders, rebuilt like new. Nos. 4619, 4667, 6804.

1—Davenport std. ga., 20 ton, 10x16 cylinders, saddle tank. No. 1747.

6—Porter std. ga., saddle tank, 14x22 cylinders, weight 42 tons, like new, only one year of service, shop Nos. 6768, 6769, 6770, 6771, 6772 and 6773.

3—7 ton, 24-in. ga., Plymouth, gasoline.

4—3 ton, 24-in. ga., gasoline, 2—Plymouth, 1—Whitcomb and 1—Fordson.

### CARS

12—36-in. ga. Continental, 4 yd., heavy duty, rebuilt like new.

15—Lakewood 24-in. ga., V shape, 1½ yd., all steel Dump Cars.

30—24-in. ga. Flat Cars, and 144 batch boxes with same, capacity 25 cu. ft., and 37 cu. ft.

### ELECTRIC HOISTS

3—American double drum with attached swinging gear, 37 hp., 440 v., 60 cy., 3 ph.

2—52-hp. Lidgerwoods, double drum, 220 v., 60 cy., 3 ph., with swingers.

1—Same as above, single drum, high speed.

1—50-hp. Mead-Morrison double drum Electric Hoist, 50-hp., 60-cycle, 3-phase, either 440 or 220 volt motor.

### STIFF LEG DERRICKS

Large number of practically new American Hoist & Derrick Co. Stiff Leg Derricks, mast 16x16x40-ft., boom 14x14x80-ft., trussed, stiff leg 14x14x55-ft. or 60-ft., bull wheel steel 16-ft. in diameter. We can furnish these either single line or bucket handling, complete with all fittings, or will sell complete set of fittings separate.
Several Steel Stiff Leg Derricks.

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1—Dobbie Steel Guy Derrick, 70-ft. mast, 60-ft. boom, capacity 10 tons.

1—American 16x16x74-ft. boom, 82-ft. mast, (wood), bucket operating.

Also large number of Guy Derricks ranging in size from 12x12x40-ft. boom to 14x14x80-ft. boom, with mast to correspond.

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1—Vulcan No. 5.

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## Steam, Electric and Gasoline

SHEAVES—New A. H. & D. Co. metal bushed.
LATHES—LeBlond Heavy Duty Q.C. Engine, 19x8, hollow spindle. $250 each.
PUMPS—Brand new Scranton 6x5¾x6, $75 each.

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## Hoisting Engine

1—New Stroudsburg, 6½x10 in. Double Cylinder Triple friction Hoisting Engine with oversize boiler (38x90) to pass Massachusetts Inspection, $1,000.

## Buckets

1—New ¾-yd. Multiple Rope Bucket, $400.

1—New 1-yd. Multiple Rope Bucket, $475.

*This equipment guaranteed to be in first-class condition.*

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### LOCOMOTIVE CRANES

2—25-ton Industrials, 50-boom A-1.
• 1—30-ton Ohio, 50-ft. boom.
1—25-40-ton Brownhoist, 75-ft. boom, electric.
1—25-35-ton McMyler, 50-80-ft. boom.
2—8-ton Osgood, 40-ft. boom.
• 1—25-ton Browning, 50-ft. boom.
1—20-ton Brownhoist, 8-whl., bucket operating.
• 1—20-ton Browning, 8-wheel, 50-ft. boom.
1—12-ton Osgood, 40-ft. boom.
• 1—15-20-ton Ohio, 50-ft. boom.

### LOCOMOTIVES

2—50-ton, 6-wheel switchers.
18-20-ton Vulcan and Porter, 36-in. gauge.
*21-30, 40-ton Vulcan American, Std. gage, S. T.
*25-ton Baldwin, Gasoline, standard gage.
6-ton, 24 and 36-in. gage Dinkies.

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2—Class 24 Bucyrus, 100-ft. booms.
1—3-T Monighan Walker, 75-ft. boom.
1—Class 9½ Bucyrus, 75-ft. boom.
1—Class 7 Bucyrus.

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¾-yd. Erie Traction and Caterpillar.
1, 1½, 1¾ Marion Caterpillar.
6—¾-yd. Osgood, Thew, Marion.

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1½, 4, 6, 12, 16, 20, 30-yd. capacity 5 and 10-ton CATERPILLAR TRACTORS—SPREADER CARS.

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1—¾-yd. **Osgood Traction Shovel, A.S.M.E.** Boiler.
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1—7-S Knickerbocker **Concrete Mixer**, with low charging hopper and 8 hp. Le Roi gasoline engine.
1—14-S Standard **Concrete Mixer**, with low charging hopper and 10 hp. electric motor.
1—15-hp. Lidgerwood Utility single drum **Gasoline Hoist**, with LeRoi engine.
1—4-in. Barnes Single **Diaphragm Pump**, with 2½-hp. Hercules Gasoline Engine.

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4—125-hp. Ames Empire. Built 1922. A.S.M.E. and Mass. Std. 125 lbs. working pressure. Excellent condition.

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1—534 ft. Chicago-Pneu. NSBE with motor.
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2—800 ft. Ing.-Rand CB-2 with 150 hp. motors.
1—800 ft. Ing.-Rand RB with 150 hp. motors.
2—1302 ft. Ing.-R. PRE-2 dir. con. 2200-60-2 or 3.
1—3864 ft. Ing.-R. PRE-2 dir. con. 2200-60-2 or 3.
2—5000 ft. Centrifugal Compressors, 2.5 ft. pressure, direct connected to 75 hp. motor, 220 v., 60 cy., 3 ph.
(New TRAYLOR compressors)

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8¾x10 DCDD Clyde with B. and Sw.
45 HP DD CLYDE with Sw., 220 volt DC.
200 HP DD OTTUMWA shaft hoist with motor.
100 HP SD CLYDE shaft hoist with motor.
65 HP DD CLYDE with Sw., 220 volt DC.
5 and 8 ton Westinghouse-Baldwin trolley locomotives, 220 volt DC, 36 to 42 in. gauge.

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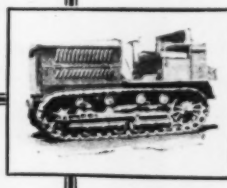

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One BUFFALO-PITTS Three Wheel, Ten Ton Road Roller. Good Working Condition. Also KELLY-SPRINGFIELD Three Wheel Ten Ton Road Roller. Like new. For location, price, other particulars.

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21-E steam power half caterpillar, boom and bucket, batchmeter. First class condition. Ready to work. Price $1500.

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300,000 lbs. Fairbanks, with type registering beam. 12 ft. x 6 in. x 56 ft. platform. Complete with structural steel, live rail stands and dead rail blocks.

Worth about $4,000.00 Will sell for $1,250.00, F.O.B. cars Aetna, Indiana.

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For one who considers the purchase of a machine of this type here is without a question of doubt an exceptional opportunity. This equipment has been rebuilt by its maker from stem to stern and nothing spared to put in "as good as new" condition. For quick sale a bargain.

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1—**Austin Caterpillar Boom Backfiller** with 4 cylinder Erd Motor, used 6 months, price $1100.

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1—**Austin No. 0.**
1—**Austin No. 00**, gasoline driven, digs 10 ft. deep, 30 in. wide.
2—**Parsons No. 10 Backfillers.**
1—**Barber-Greene Ditcher**, digs 6 ft. deep and 24 in. wide.

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**Trench Machines, Backfillers, Shovels, Cranes and Draglines**

New and second hand.

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**MODEL 16-B**

## BAY CITY EXCAVATOR

Gasoline Power. Crawler mounting with Skimmer or Ditcher scoop or crane boom.

**For Sale or For Rent with Operator**

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Phone: Worth 1569

## HARRY BENJAMIN EQUIPMENT CO.

**PRICED TO MOVE PROMPTLY**
**LOCATED IN TEXAS**

## DUPLEX STEAM PUMPS

**2500 gal. Cross Compound National Transit Outside Packed**

**3-ton Elec. Hoist 20-ft. span. Steam vertical lighting Engines Direct Connected.**

***All in First Class Condition***

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# Shandaken Tunnel Equipment

***Ready for Immediate Delivery***

### Cars

71—1 cu. yd. 30 in. G. Koppel Trunnion.
40—1½ cu. yd. 30 in. G. Sanford-Day End Dump.

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11—G. E. Co. 4 ton, 30 in. G. Locos.
7—Whitcomb 4 ton 30 in. G. Locos.
5—Lakewood 36 in. G. Locos.
1—Baldwin 36 in. G. 6x10 Saddle Tank Steam Locomotive.

### Concrete Mixers

4—28-S Ransome, electric drive.
1—14-S Lakewood, gasoline engine drive.

### Motor Generators

3—35 kw., dir. con., 440 v., 3 ph., 60 cy. Squirrel Cage Motors.

### Miscellaneous

1—Marion No. 31 Standard and Railroad Trac. Steam Shovel.
4—Myers - Whaley Mucking Machines.
9—2 ton Triplex Chain Hoists.

**Equipment and Material may be inspected at Shandaken, N. Y., located on U. & D. Railroad 30 miles from Kingston, N. Y.**

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## Corliss Steam Engine

1—150 hp. in A-1 operating condition.

**ATLAS DROP FORGE COMPANY,**
Lansing, Michigan

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## 1-3½-yd. Marion 1-225-B Elec. Shovels

*Send Us Your Inquiries*

**ROSS POWER EQUIP. CO.**
Indianapolis, Ind.

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## STEAM SHOVELS

Marion 21 and 37 Traction or Cat.
Erie B Caterpillar and Traction.
Railroad Shovels, 1½ to 5 yd. sizes.
Marion ¾-yd. Tr. Rev. (Sale or Rent).

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1—Haiss **Path Digging Loader** $2,500.
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1—Haiss ½ yd. **"Hi-Power"** type, rebuilt.
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**GEORGE HAISS MFG. CO., INC.**
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**Immediate Delivery**

## ELECTRIC SHOVEL

1—Vulcan Class F. 600 v., 1½ cu. yd. capacity.

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***Special Offering***

2—72-in. diameter, 12-ft. high, ⅛-in. shell, ⅝-in. heads, double butt strapped and triple riveted for 150 lbs. pressure. Capacity 2500 gallons.

2—90-in. diameter, 27-ft. long, 7/16-in. shell, ⅝-in. heads, for storage or light pressure. Capacity 9000 gallons.

7—84-in. diameter, 20-ft. long, 7/16-in. shell ⅝-in. heads, for storage or light pressure. Capacity 4220 gallons.

**Wickes Machinery Co.**
Jersey City
Established 1900

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1—**Marion** Model "100" R.R. Type **Shovel**, special heavy construction, 98% new.
1—**Marion** Model "37", 1⅝ cu. yd. **Steam Shovel**, mounted on crawling traction trucks, good condition.
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Good shovels of other makes also available.

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20-Ton American.
15-Ton Industrial.
10-Ton Industrial.
Byers Crane, 32-ft. boom, ⅝-yd. clam.

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70-Ton Bucyrus R.R., 2½-yd. dipper.
95-Ton Bucyrus R.R., 5-yd. dipper.
12-yd. W. & O. All Steel Hand Dump Car.

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6¼x8 Monaghan Dble. Drum, Dble. Cylinder.
7½x10 Dake Single Drum, Dble. Cylinder.
40 H.P. Olds Gasoline Single Drum Mine Hoist.
50 H.P. Danville Hoisting Engines.
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### Locomotives

Baldwin, 36 Gauge.

### Compressors (Belt)

6x6 Ingersoll ER-1, 65 cu. ft.
7x6 Ingersoll ER-1, 74 cu. ft.
10x10 Union, 250 cu. ft.
10x12 Gardner Portable, 275 cu. ft.
12x12 Gardner, 350 cu. ft.
12x14 Sullivan, 450 cu.ft.

### Compressors (Steam)

7x10x8 Locomotive Type, 60 cu. ft.
10x12x12 Marsh, 70 cu. ft.
10x16x10 Clayton, 425 cu. ft.
12x18x12 Ingersoll, 600 cu. ft.
12x18x12 Ingersoll, 1050 cu. ft.
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### Boilers

250 H.P. Heine Type Water Tube Boilers (never used), built for 200 lbs. pressure.
72-in.x18-ft. Kewanee R.T. Boilers.

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150 K.W. Westinghouse, D.C., 275 volt, direct conn. to 225 H.P. Erie Steam Engine.
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10x16 Buchanan Stone Crusher.
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Kent Crushing and Pulverizing Mill.
24x24 Buchanan Crushing Rolls.
36x72 Rotary Screen.
Bucket Elevator, 36-ft. centers.
Bucket Elevator, 60-ft. centers.
Belt Conveyor, 52-ft.

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17 State St. NEW YORK | 35th & Iron St. CHICAGO

## HOISTING ENGINES (Electric)

1—Clyde 75 hp. triple drum with attached or independent swinger.
6—American 37 hp. double drum with swinger.

## HOISTING ENGINES (Steam)

1—Lidgerwood 12x12 double drum heavy double V-type brake bands, especially suited for drag line service.
1—Lambert 9½x12 triple drum with A.S.M.E. boiler and independent swinger.
1—Lidgerwood 8¼x10 triple drum, with A.S.M.E. boiler and independent swinger.
1—Lidgerwood 8¼x10 double drum with A.S.M.E. boiler and attached swinger.
1—Lidgerwood 8x10 double drum bridge engine, four independent winch heads and A.S.M.E. boiler.
1—Lidgerwood 9x10 double drum with boiler.

## HOISTING ENGINES (Gasoline)

2—Mundy 75 hp. triple drum; used thirty days.

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2—4½x6 Mead Morrison independent swinger.
1—6x8 Lidgerwood independent swinger.

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2—15-ton Terry 3 line derricks, 16-in. dia., 65-ft. steel booms, 37 ft. mast, 12-ft. bull wheels; used thirty days.
10—Derricks, 11x14 timbers, 12-ft. bull wheels, 65-ft. boom.

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1—Ingersoll-Rand Portable Compressor, 250 ft.
1—Ingersoll-Rand Portable Electrically driven, 325 ft.
1—Chicago Pneumatic 12x10 belt driven, 350 ft.

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## BROWNINGS

1—25-ton, 50-ft. boom.
1—20-ton, 50-ft. boom.

## INDUSTRIAL

1—17½-ton, 40-ft. boom magnet generator.

## McMYLER

1—20-ton, 40-ft. boom.

## INTERSTATE

1—20-ton, 40-ft. boom.
1—15-ton, 50-ft. boom.

## AMERICAN HOIST & DERRICK

1—20-ton, 30-ft. boom.

**Hoisting Machinery Co.**
50 Church St., New York
Bourse Building, Philadelphia, Pa.

# *The* GREY *Line*

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**For Sale or Rent**

1—20-ton, 8-wheel, OHIO, Type "CD" Shop No. 3631, new 1924, A.S.M.E. and Mass. boiler, 50-ft. boom, bucket operating, used 4 months, like new.
1—McMYLER No. 2, full revolving STEAM CRAWLER CRANE, new 1925, 40-ft. boom, bucket operating; used three months.

## STEAM SHOVELS

1—NORTHWEST, Model No. 105, full revolving GASOLINE Shovel, new late 1923, ALL STEEL CATERPILLARS, ¾-yd. dipper; HIGH LIFT, Boom Hoist, excellent condition.
1—MARION MODEL 32, full revolving, Steam Shovel, new Sept. 1924, ALL STEEL RIGID CATERPILLARS, 1¼-yd. dipper; HIGH LIFT; used 60 days, perfect condition.

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25—12-yd. std. gauge, WESTERN, two-way side hand dump, all steel except 19 ft. wood bodies, box girder type doors, M.C.B. trucks, overhauled, first-class condition.

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2—Industrials 20 ton, Type G, 50-ft. booms.
2—Brownings, 20 ton, booms 50 ft., double power driven drums, 8 wheel, M.C.B.

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2—Northwests, caterpillar, ¾-yd. dippers.
1—Erie Type B, full caterpillar, high lift, A.S.M.E. boiler.
1—Marion 36, caterpillar, 1½-yd. dipper.

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**DRAGLINES, 40, 45, 50 feet Booms. Latest Type. About 6 months in service**

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**ALL EQUIPMENT FOR SALE OR RENT**

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## PAVERS CRANES ROLLERS

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1—New York, 10-ton, 3-wheel **Roller.**
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72-ton American 6-wheel Switcher.
40-ton Pennsylvania 4-wheel Switcher.
70-ton 3-truck Shay, geared.
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38-ton American 4-wheel Saddle Tank.

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30-ton, 8-wheel McMyler, 70-ft. boom.
18-ton, 8-wheel O. & S., 45-ft. boom.
Also other locomotives and locomotive cranes and steam shovels and steel rails.

*Complete List on Request*

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Birmingham, Alabama

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Taken in on trade and at a bargain.
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6—**Kelly-Springfield** Rollers, 3-wheel motor and steam and tandem steam.
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*Write for Prices and Description*

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## REPAIRED EQUIPMENT

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1—**Northwestern Gasoline Shovel,** Model 105.
1—**Type B Erie** on caterpillars, for rent only.
39—12-cu.yd. std. gauge **Western Air Dump Cars.**
11—16-cu.yd. std. gauge **Western Air Dump Cars.**
3—11 x 16-in. **Vulcan Locomotive,** 36-in. gauge A.S.M.E. boilers.
4-yd. Cars, Clam Shell Buckets, S. G. Locomotives, etc.

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No. 16 **Koehring Paving Mixer.**
5-ton **Gasoline Locomotive** 24-in. gauge.
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30-hp. **Locomotive Boiler** on wheels.
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3-in. suction **Cameron Pump.**
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12-in. **Morris Centrifugal Pump** and **Engine.**
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**Westinghouse Locomotive type Compressors**
**Portable Electric Lighting Plant** 25 kw. with Gasoline Engine.

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16—7½-ton all steel Lackawanna Derricks. Booms furnished, 50 ft., 65 ft., 67 ft., or 87 ft. long, as desired. Mast, 42 ft. 8 in. Bullwheel 12 ft. dia. Complete with stiff legs and all fittings.

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1—Marion 21 Caterpillar. ¾-yd. New 1920.

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1—36-ton Porter, 14x20, 4 wheel, saddle tank, standard gauge.

## Locomotive Cranes

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1—15/20-ton Brownhoist, D.D., 47-ft. boom, 8-wheel. No. 6486. Rebuilt.

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4—Link Belt, 90-ft. booms, full revolving, self propelling, A.S.M.E. boiler, mounted on 30"x4. substructures. Like new.

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Model 24 Parsons Gas Operated Caterpillar Mounted. Equipped with new side cutters. Perfect condition.

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1—7¼x10 Mundy, 3 drum, A.S.M.E. boiler.

1—7x10 Lidgerwood 3 drum A.S.M.E. boiler, with geared swinger.

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1—30-hp. single drum **Dake Hoist.**
1-R **Compressors,** 526, 888 and 1200 ft.
4—36-in. gage **Electric Locomotives.**
1—40-hp. **Electric Hoist,** 2 drum.
2—4-drum **McMyler Shaft Hoists.**
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2—Type O **Thew Shovels.**
1—**Marion 21 Shovel,** ¾-yd. cat. tr.
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1—**Marion** Model 60 **Shovel,** 2½ yd.

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20 ton Orton & Steinbrenner, eight wheel standard gage, equipped with A.S.M.E. boiler, 1½ yard clam shell bucket. In first class condition. Can be inspected at our yard Norristown, Pa.

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OHIO, No. 3631, new April, 1924, 20-ton cap., 50-ft. boom, d.d. Mass. boiler, 8-wheel M.C.B. Used 6 mos.
INDUSTRIAL, 20-ton cap., 50-ft. boom, d.d., outriggers, A.S.M.E. boiler, 8-wheel M.C.B. steam brakes, overhauled. Guaranteed.
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**50 Church St., New York**

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O. & S. Late Model. Used on only one job. Perfect condition.

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12-ton O & S Caterpillar Crane.
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21-S Koehring Building Mixer on Skids.
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1—60 Marion Railroad Type.
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Standard Gauge 5—10 x 16. 5—11 x 16.

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74 Standard gauge, 10 cu.yd. Hand Dump.

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6—Clydes 9 in. x 10 in. with 35 hp. Boilers

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5—Extra good—75 ft. booms, 90 ft. masts.

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Narrow and standard gauge, etc.

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Davenport 4 Driver Std. Ga., 11x16 cyls. 165 lb. steam. Located Peoria, Ill. Excellent. Immediate shipment.

**⅝ CU. YD. AMERICAN**
Standard R. R. Ditcher. Suitable for clam shell attachment.

**BALLAST CARS**
120—41-ft., 100,000 lb. cap. Rodgers-Hart Convertible Steel Underframe. First-class. M.C.B. and I.C.C.

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3—Second-hand Locomotive Type Boilers. Built in U.S.A. 250 hp., designed for 200 lbs. W.P., also
1—Scotch Marine Type Boiler. 8 ft. 0 in. diameter, 8 ft. 6 in. long, 80 lbs. W.P.
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20-ton Ohio 8-wheel **Locomotive Crane**, 50-ft. boom.
7x10 Ligerwood D.D. **Steam Hoists.**
½-yd. Knickerbocker **Concrete Mixer**, motor drive.
½-yd. **Smith Tilting Mixer**, steam drive.
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**National Brake and Electric**
2—300-ft. Slip Ring Motors, 3 ph., 60 cy., 220 v.
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Motors changed if desired.
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3—7-ton Plymouth Gas Locomotives.
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110 tons 50-lb. Rail (Standard rail).
Complete Unloading Plant. In use only four months. Equipment in first class condition.

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**STEAM**

Shay geared, Vulcan and Davenports, two foot gauge, 13 to 15 tons, Government specifications.

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Sullivan WK-31 on trucks. Buda gasoline power, first class mechanical operating condition, 170 cu. ft. capacity, $1050.00 f.o.b. Milwaukee, Wis. Subject to prior sale.

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20—Peck Rotary Air Drills, capacity 1¼ in. at 90 pounds pressure. Also large Assortment Chipping and Riveting Hammers.

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(All Diaphragm Hand Operated)

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**Practically New**

6—400-hp. Wickes Vertical Water Tube Boilers, 175 lbs. pressure, complete with Murphy stokers, Crane non-return valves, 48-in.x90-ft. steel stacks and all accessories.
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Established 1904

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**Our second-hand pipe is thoroughly overhauled with new threads and couplings, and in full random lengths.**

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1000 ft. 20 in. mill lengths ⅜ in. wall pl. ends.
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**100,000 Feet—**
1 in. Std. Black Pipe. This pipe is in lengths ranging from 7 ft. up, coupled together, making lengths 18 to 21 ft. All couplings new, and not more than two couplings (three pieces pipe) to each length. Pipe is practically new. Was cut for wall radiation, coils, etc.

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7 in. Std. Black Pipe, with flanges. Used as air line above ground. Condition equal to new.

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ALL SIZES CUT TO SKETCH

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*for all purposes*

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Lackawanna ⅝x14 in., used one operation. 250 tons 27 ft. 0 in., 110 tons 9 ft. 0 in., 75 tons 10 to 45 ft.
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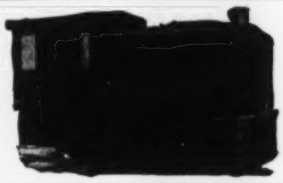

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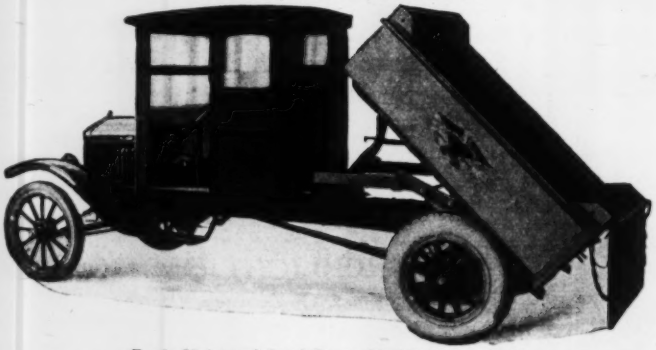

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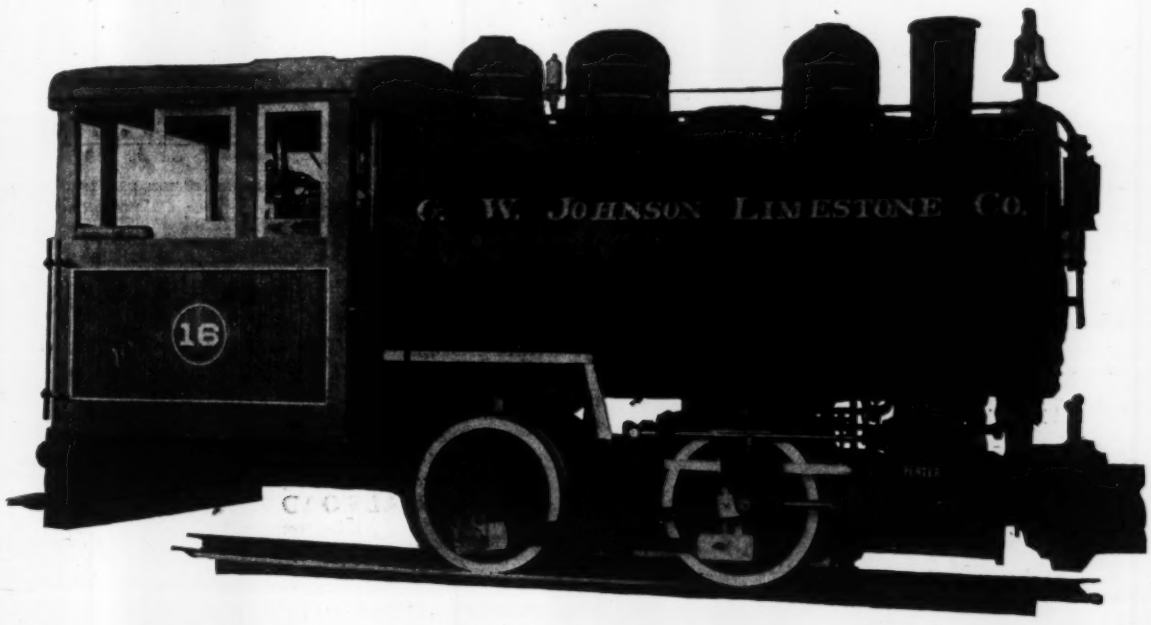


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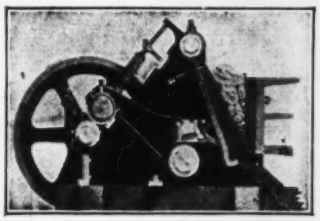

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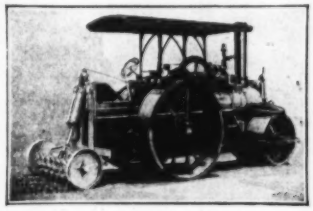

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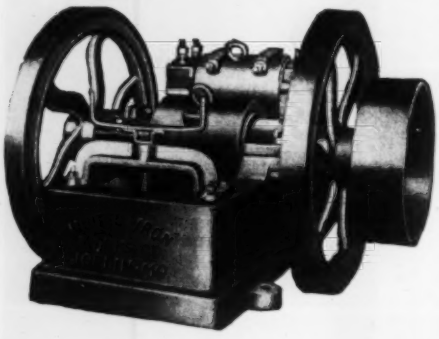

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The capacity of these crushers is large. It is only by concentrating in the building of one type of crusher that the UNITED low price is made possible.

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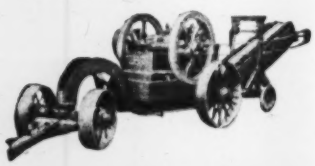

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Clinton fabric can be furnished in flat sheets and laid by unskilled laborers as fast as the mixer can cover the ground.

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*Sanitary Sewer Pipe*

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TRUSCON STEEL FOR CONCRETE REINFORCING

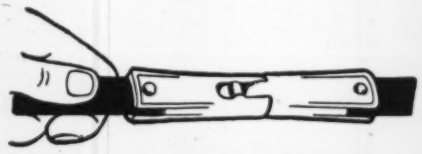
# *For manhole forms*

Manhole forms, too, can be quickly and economically built with standard and special METAFORMS. On special jobs of this nature, when the form building space is limited, the simple, easy-to-handle Metaforms offer the only practical method. Metaforms speed the job and cut costs.

Metaforms are produced for both circular and straight wall work. They are uniform, reinforced steel plate units.

*Write for Booklet*

**Metal Forms Corporation**
Milwaukee, Wis.



**SEWER AND CONDUIT**
# FELTON'S
**ROD COUPLINGS**

## Lock Like One Piece
## More Rigid than Ever!

Since we improved these well-known couplings by adding straps and tapering the rod-socket to obtain a drive fit, they have greater strength and rigidity than ever before.

Hold a series of several couplings by one hand, as suggested in illustration, and they will be as straight and tightly linked as though all one piece.

***Prices remain the same***
***Send for our illustrated folder***

**WALDO BROS. & CO.**
**202 Southampton St., Boston, Mass.**

*New Way to Join Pipe*

# PRESSTITE

PATENTS PENDING

PRESSTITE — SELF CENTERING — WATER TIGHT — ROOT PROOF — ACID PROOF — THE JOINT EVERLASTING

An asphalt joint in a new, convenient form. A preformed, pliable, asphaltic gasket inserted with pipe on top of trench. Joint is pressed "home" gradually with lever, as pictured, (2000 to 2500 lbs. horizontal pressure). A joint that won't leak, crack or freeze. Root-proof. Acid-proof. Saves sewer cleaning expense. Saves in trench width. Can be used in wet trench.

**SELF-CENTERING**

Gasket tapers to outer edge of bell. Automatically centers spigot into bell of pipe. Allows pipe to conform to final grade of trench. Big saving in labor. Write for details. Let Presstite Service help solve your pipe line problems.

**PRESSTITE ENGINEERING CO.**
**4327 Duncan Ave., St. Louis, Mo.**

Patented

**SHANLEY**
**Reversible Manhole Cover**

Shows net saving of $96 per manhole. Saves the pavement. Can be handled by one man. Cheaper to install. Adopted as Chicago standard cover. Made in any size or shape, according to specifications. Write or wire for complete information.

**Shanley Reversible Manhole Cover**
*Manhole and Utility Vault Covers*
**115 S. Dearborn Street, Chicago, Ill.**

TONCAN METAL

# Rust-Resisting CORRUGATED CULVERTS

"ACME" (Nestable) and IMPERIAL Riveted Corrugated Culverts.
Made of anti-Corrosive Toncan Metal. Write for prices.

**The Canton Culvert & Silo Co., Canton, Ohio**
MANUFACTURERS

# LACLEDE-CHRISTY

Patented

## Segment Sewer Blocks

—Vitrified Clay, salt glazed

—Use for all sewers, culverts, etc., over 36" in diameter.

—Write for descriptive booklet.

We also specialize in large sizes of Vitrified Sewer Pipe—27" to 36" dia.

**LACLEDE-CHRISTY, ST. LOUIS, U. S. A.**

H386

HARDESTY METAL PRODUCTS

# FLUMES, GATES, PIPE and IRRIGATION SUPPLIES

**See Our One-Half Page Ad.**
**in first Issue of the month.**

**THE R. HARDESTY MFG. CO.**
**Denver, Colorado**

# VITRIFIED CLAY CONDUIT

Our process of manufacture with low freight rates to all points permits us to quote interesting prices upon request. Give type of conduit and point of delivery.

**CLERMONT CLAY PRODUCTS CO.**
**1422 Chestnut St., Philadelphia, Pa.**

# Two grains of Strychnine

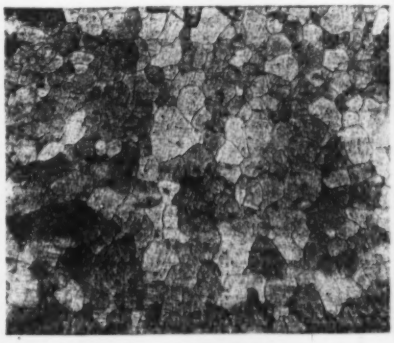
Two grains of strychnine will kill a 180 pound man.

The percentage of strychnine compared with the man's weight is less than 1/5000 of 1 per cent.

It is easily understandable, then, why an increase in impurities of several hundredths of one per cent makes such a vital difference in the durability of culvert material.

ARMCO Ingot Iron is purer than any other iron made. The microphotograph shows nothing but pure ferrite grains. That's why no other iron compares with it in durability under culvert conditions, as proved by actual investigation of thousands of installations.

*There is a manufacturer in almost every state and in Canada, making Culverts, Flumes, Siphons, Tanks, Roofing, etc., of genuine, rust-resisting ARMCO Ingot Iron. Write for full information and nearest shipping point on products in which you are interested.*



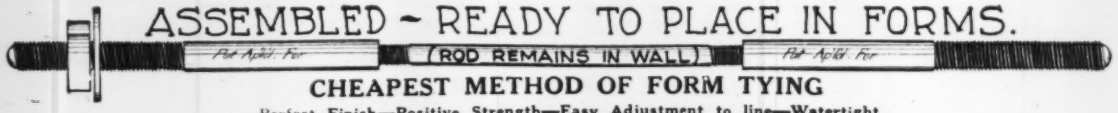
Microphotograph of ARMCO Ingot Iron

INGOT IRON
*the purest iron made*

ARMCO CULVERT & FLUME MFRS. ASS'N
MIDDLETOWN, OHIO

## ARMCO CULVERTS FOR ECONOMY

*"Look under your roads"*




**CHEAPEST METHOD OF FORM TYING**

Perfect Finish—Positive Strength—Easy Adjustment to line—Watertight
Rod left in wall costs no more than usual tie wire.

**HAWLEY TIE BOLT CO., 403 Cotton Exchange Bldg., Fort Worth, Tex.**

Wood Preservers Since 1878

## Eppinger & Russell Co.

**CREOSOTED**
**Forest Products of all kinds**

Ties—Lumber—Piles—Poles—Cross Arms for Railroads, Bridges, Docks, Fences, and other purposes where permanent construction is required.

**Also Manufacturers and Dealers in**
**Yellow Pine and Cypress**

**Main Office: 165 Broadway, New York**
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**Plants at Jacksonville, Fla. Long Island City, N. Y.**

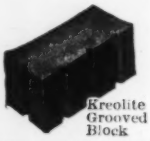
Information and Quotations Cheerfully Given.
Address Nearest Office

## KREOLITE WOOD BLOCK FLOORS

"Outlast the Factory"

An excellent investment for machine shops, loading platforms, foundries, warerooms, pickling rooms and other parts of the plant where the floors receive hard wear.

**Write today for our booklet—**
***"Kreolite Factory Floors."***


Kreolite Grooved Block

We also furnish Kreolite Wood Blocks for Street Pavements, Bridge Floors and Stable Floors, treated ties, piling timbers, fence posts, etc., framed to your plan, if desired, before treatment.

**The Jennison-Wright Co.**
**79 Kreolite Bldg., Toledo, Ohio**

Trade Mark Reg.

**BLOCK FLOORS**

***Full Details and Specifications Upon Request***

**SOUTHERN WOOD PRESERVING CO**
**ATLANTA, GA.**

SALES OFFICES:
New York Philadelphia Pittsburgh Buffalo
Cleveland Toledo Charlotte

**OFFICE:** 522 5th Ave., N. Y.

**WORKS:** Portsmouth, Va.

## THE WYCKOFF PIPE & CREOSOTING COMPANY

*Established 1881*

**CREOSOTED**

**Railroad Ties, Bridge Timbers, Piles, Poles, Paving Blocks and Lumber — Manufacturers of Cross Arms and Wyckoff Conduit for Underground Wires.**

## CREOSOTE OILS

MADE TO SPECIFICATION

TAR PRODUCTS CORPORATION

PROVIDENCE, R. I.

**Offices:** 99 Empire St., Providence
**Works:** East Providence

## AMERICAN CREOSOTING COMPANY

INCORPORATED

*COLONIAL CREOSOTING COMPANY* INCORPORATED

AMCRECO LOWRY PROCESS CREOSOTED WOOD

*GEORGIA CREOSOTING COMPANY* INCORPORATED

Poles Timbers Cross Ties

Piling Lumber Paving Block

**LOUISVILLE ~ KENTUCKY**

*SALES OFFICES*

820 MADISON AVE NEW YORK CITY ~ 401 W. MAIN ST. LOUISVILLE, KY.
BOGALUSA, LA. BRUNSWICK, GA.

## Wood Preservatives

All grades and to any desired specification, including colorless and odorless preservatives. Prices vary according to quality, discounts according to quantity. Full information and details on all wood preserving requirements especially for surface treatments based on 36 years' experience. Works: Kenilworth, N. J. Shipping Depots: Pittsburgh, Chicago and St. Louis.

**PROTEXOL CORPORATION**

Successor to Carbolineum Wood Preserving Company.
**35 Barclay St., New York, U. S. A.**

## GODWIN STEEL PAVING-GUARDS

Protect the edges of Street, Road, Curb, and Street Railway Paving

Various sizes and shapes adaptable to all types and character of paving. *Write for Illustrated Catalog No. 21.*

**W. S. GODWIN CO., Inc.**
Race & McComas Sts. Baltimore, Md.

**Creosoted Ties, Piling, Poles and Timbers**
**Creosote Oil**
**Docks for Ocean Vessels**

**AMERICAN CREOSOTE WORKS, INC.**
New Orleans, La.

**SAVANNAH CREOSOTING CO., INC.**
Savannah, Ga.

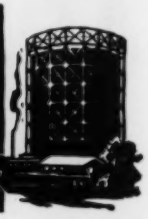
## TRUSCON BAR-OX STEEL PAINTS

BARS OXIDATION

*Rust Inhibitive - Gas Holder - Acid and Alkali Coatings*

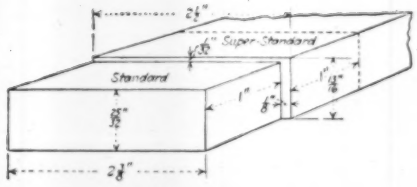
ASK FOR BOOKLET

**THE TRUSCON LABORATORIES ~ DETROIT**



*This is the second of a series of advertisements being published in a genuine desire to see lumber users get what thy pay for. The material that is commonly shaved off at the mill can just as well be used to increase the dimensions of the lumber, increasing the strength 8%, stiffness 12%, and warping resistance 8%.*

# 2/9.5% More Lumber in Super-Standard




**Here are the figures to prove it**

The volume of one inch of 1x3 lumber
= the surface of the end x 1-in.
= the surface of the end expressed in square inches

End surface of standard = 25/32x2⅜-in.
= 25/32x76/32 = 1900/1024 = 1-219/256
= 1.855 sq. in.

End surface of *super* standard = 13/16x2½-in.
= 13/16x40/16 = 520/256 = 2-1/32-in.
= 2.031 sq. in.

Difference in Area = 2.031—1.855 = .176 sq. in.

% increase of *super* standard over standard
= .176 / 1.855 = 9.48%

The difference between "rough green dressed" and "rough dry dressed" is ⅛ inch in one dimension and 1/16 inch in the other.

The difference in volume of lumber is 9.5%.

The difference in strength is 8%.

The difference in stiffness is 12%.

The difference in resistance to warping is 8%.

The difference in your pocketbook is *at least* 9%.

Do you want to reduce your labor bills 9%?

Then specify *Super-Standard*—there is no further argument.

**Southern Pine Sales Corp.**
**Charles Hill—Gen'l Sales Mgr.**
**Woolworth Bldg.—New York City**

**"An Inch for an Inch and a Foot for a Foot"**

OWN YOUR HOME

VULCANITE PORTLAND CEMENT CO
PHILADELPHIA BOSTON NEW YORK

## A New Paper Cement Bag

*The Multi Ply Keeps Contents Dry*

*Five Walls of Tough Pliable Paper*

*Manufactured by*

**Bates Valve Bag Company**
**8200 South Chicago Ave., Chicago, Illinois**

BUY YOUR CEMENT IN MULTI-WALL BAGS

*Write for Samples*

Business Established 1832

**The Lawrence Cement Co.**
**No. 302 Broadway New York, N.Y.**

Selling Agents for

**Dragon**
**PORTLAND CEMENT**

**In Successful Use a Third-Century**

*Specialists in*
**CEMENT GUN CONSTRUCTION**
**Engineering—Contracting—Renting—Operating**
**Estimates Promptly Furnished**
*Contracts Executed Anywhere*
**GUNITE CONCRETE AND CONSTRUCTION CO.**
BARCLAY A. GREENE, President
**114 West Tenth Street, Kansas City, Mo.**
BRANCH OFFICES: 335 U. S. National Bank Building, Denver, Colorado; 2011 Railway Exchange Building, St. Louis, Mo.

**CEMENT GROUTING by WEBER "INTRUSION" Method**

**CEMENT GUN WORK**

**WEBER ENGINEERING CORPORATION**
**Singer Building, New York**

**BITUMASTIC AND HERMASTIC**

Paints and compounds that meet every problem of metal protection. Backed by 70 years' experience.

**WAILES-DOVE-HERMISTON CORPORATION**
**Whitehall Bldg., New York City, N. Y.**
*Branch Offices and Sales Agencies*
Cleveland Philadelphia Chicago Boston Atlanta Seattle San Francisco
In Canada: Lytle Engineering Co., Montreal

**CEMENT GUN CONSTRUCTION CO.**
**THE ORIGINAL**
**Cement-Gun Work Contractors**
Do not confuse us with the man who makes the machine
**WE DO THE WORK**
*Exclusive Contractors and Engineers*
**Estimates and information cheerfully given.**
**537 So. Dearborn St. Chicago, Ill. Pittsburgh Branch Oliver Bldg.**

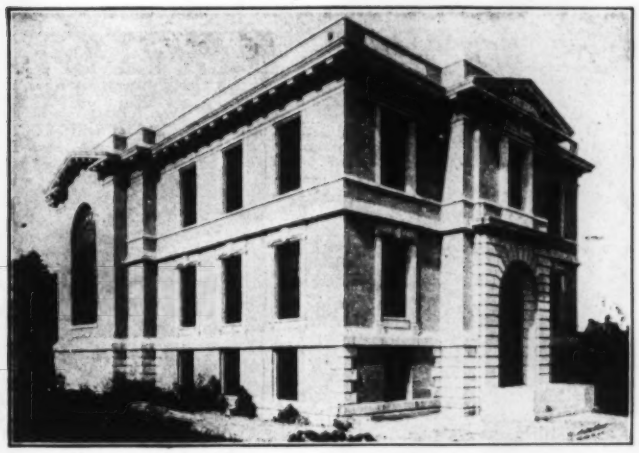
**GYPSTEEL**
**FLOORS** *pre-cast and poured-in-place* **ROOFS**

Gypsteel Floors and Roofs assure fire-protection, durability and economy. They are approved by the Buildings Departments of the principal cities.

**STRUCTURAL GYPSUM CORPORATION**
**MAIN OFFICE: 53 PARK PLACE, NEW YORK, N. Y.**

**CEMENT-GUN COMPANY, Inc.**
**Allentown, Pa.**
**We Build the "Cement-Gun" and also Do the Work**

Our Contract Department with its large and expert organization was established in order to insure to all users of Gunite prompt and efficient work at proper prices.
*Write to us for purchase of equipment or contract work.*



*Commercial Cable Company Building at Far Rockaway, Long Island, N. Y. William Crawford, Builder.*

# How the Commercial Cable Company keeps its walls damp-proof

IF it should rain for seven days and seven nights, no dampness can penetrate the walls of the Commercial Cable Company's building at Far Rockaway, Long Island.

The entire exterior wall surface of this building has been made absolutely waterproof and damp-proof by an application of Hydrocide Colorless. In addition to keeping the interior of the building warm and dry, this material preserves the natural beauty of the brickwork. Its presence on the exterior surface of a wall can not be noted.

Hydrocide Colorless is a perfect waterproofing for brick walls. It can be applied in cold weather. It does not run in hot weather for it contains no paraffine. It collects no dust; it penetrates the brick; it can be painted; it is invisible.

Use this material on all your waterproofing jobs and you will have walls of which you can be permanently proud. Send for literature giving further details on Hydrocide Colorless.

## Hydrocide Colorless
## *Waterproofing*

### *Other Sonneborn products*

***Lapidolith***—The original concrete floor hardener. A liquid chemical that changes the floor surface to a fine dense crystalline structure of flint-like hardness. Hundreds of millions of feet of concrete floor have been Lapidolized in the leading industrial plants of the country.

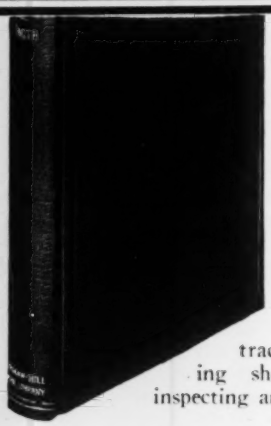
***Cemcoat***—A paint that stays white longer than any similar paint; can be washed again and again; sticks to brick or concrete as easily as to wood; and usually requires one less coat. Made for both interiors and exteriors, in white and colors, and in gloss, eggshell, or flat enamel finish. Send for a free sample.

***Lignophol***—A preservative dressing for wood floors that penetrates and restores the natural oil and gum of the wood. Lignophol prevents rotting, splintering and drying out; it is not sticky; it can easily be washed; and does away with ordinary floor oils.

***Stormtight***—The famous semi-liquid compound for mending and preserving roofs. The thick, adhesive rubber-like material can be applied by anyone, over any kind of roof, and gives a tight new surface that lasts for years. Made in four beautiful colors. Mends a single leak or makes an entire roof watertight.

L. Sonneborn Sons, Inc., 114 Fifth Avenue, New York City

**You never saw a book on detailing and fabricating structural steel as fact-packed as this one. Examine a copy for 10 days free.**



This book describes in detail the handling of structural contracts from the time proposals are made until the fabricated steel is shipped. The book presents a discussion of engineering and shop organizations, a study of structural designs and specifications, and descriptions of the best modern methods of handling contracts, ordering material, making shop drawings, fabricating, inspecting and shipping steel.

## Detailing and Fabricating Structural Steel

**By F. W. Dencer**

Engineer, Gary Plant, American Bridge Company

**511 pages, 6x9, 328 illustrations, $5.00 net postpaid.**

The organizations of the various departments in a structural shop are outlined fully. Then the book takes up, step by step, all the phases of detailing and fabricating structural steel, namely:

—handling contracts;
—laying out connections;
—ordering material;
—detailing;
—checking;
—field checking;
—writing shop and shipping bills;
—receiving material and shipping;
—making templets;
—punching;
—drilling;
—fitting;
—reaming;
—finishing;
—riveting;
—inspecting;
—painting.

Forging, heat treatment, machinery, tool and die making applicable to structural fabrication are also discussed. Special attention is given to economies in engineering and fabrication, with specific examples of simplified fabrication.

Mr. Dencer has put into this book the results of twenty-six years' engineering experience. During that time he has had ample opportunity to gather together the most practical and successful methods of doing things in the detailing and fabricating of structural steel. These methods—the accepted methods of modern practice—are all contained in this new book.

The book has been splendidly received. It is thorough and practical—just packed with the kind of information you want.

Send for a copy to examine for ten days free. No obligation to purchase—no agents—no red tape. You simply agree to return the book postpaid in ten days or to remit for it then. Send just this coupon.

**McGRAW-HILL**
**FREE EXAMINATION COUPON**

McGraw-Hill Book Co., Inc., 370 Seventh Avenue, New York.

You may send me on 10 days' approval:

.....Dencer's Detailing and Fabricating Structural Steel, $5.00.

I agree to remit for the book or return it postpaid within 10 days of receipt.

Member Amer. Soc. C. E.?.....Subs. E. N.-R.?.....

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·GRATING PRODUCTS·
KERLOW STEEL FLOORING CO.
222-238 CULVER AVE.
JERSEY CITY, N. J.

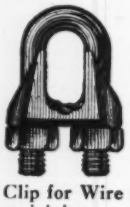
*Non-Slipping*

**MISSISSIPPI WIRE GLASS**

For protection against Fire and Breakage

**Mississippi Wire Glass Co.**
218 Fifth Ave.,
New York

Chicago St. Louis



**Plain Clip for Wire Rope** and lap joining round or distorted bars. Universally used and recommended.

*This Mark*

**On a Casting**

—means that it's made of Marion certified malleable iron, offering great resistance to shock, having high elastic limit, resisting oxidation, wears better, is free from slag holes, shrinkage, cracks, etc., and is not subject to fatigue or crystallization.

*Certified malleable castings for every purpose*

**The Marion Malleable Iron Works**
Marion, Indiana

**ANTI-HYDRO**
FOR PERMANENT CONCRETE GARDENS WATERPROOFS

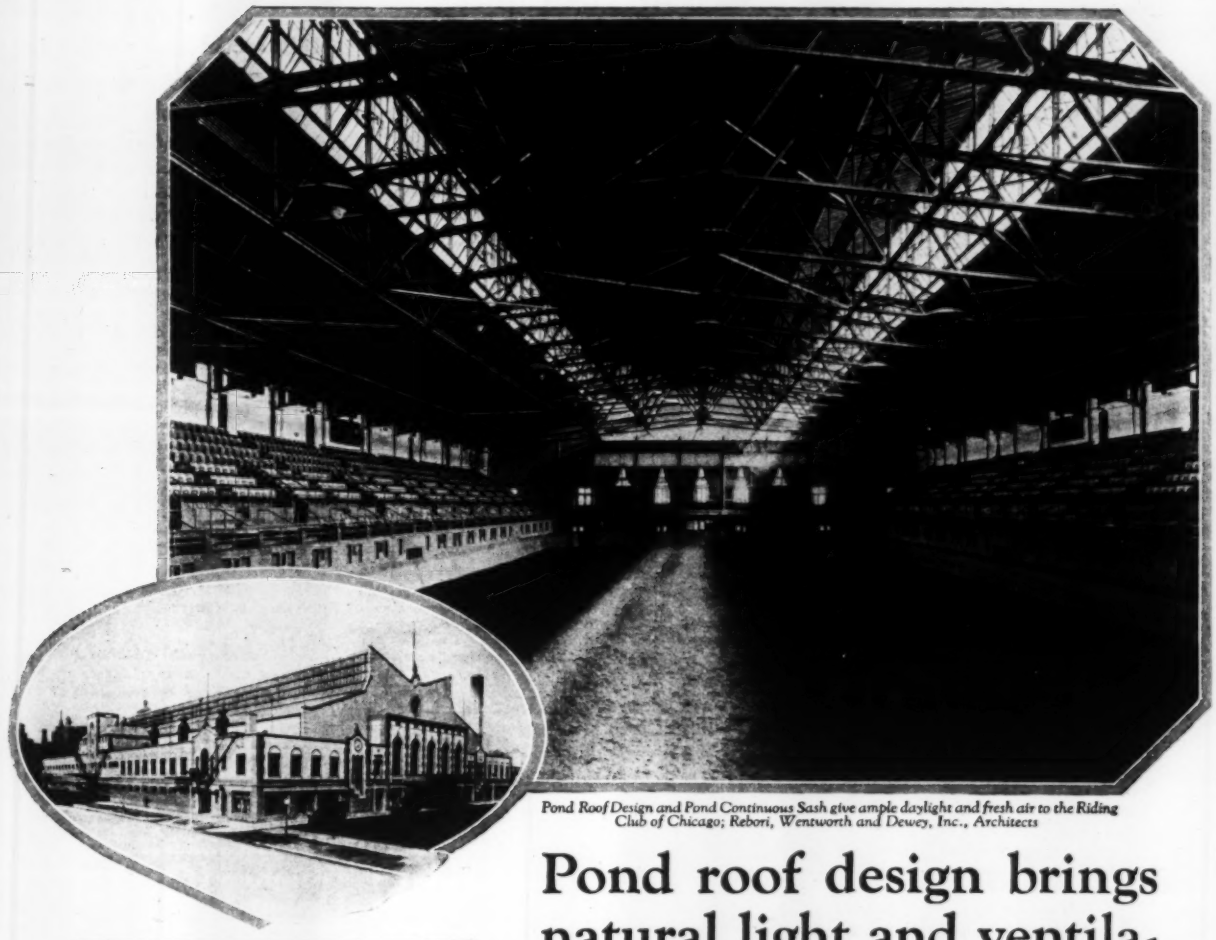
**FOR HARDENING & WATERPROOFING CONCRETE**

A liquid integral hardener which makes concrete dustless and waterproof. Used successfully for twenty-one years. Write for details.

**Anti-Hydro Waterproofing Co., 265 Badger Ave., Newark, N. J.**

**CEMENTILE**
**ROOFS**
The FIRST COST is the LAST

AMERICAN CEMENT TILE MANUFACTURING CO.
OLIVER BUILDING
PITTSBURGH, PA.



*Pond Roof Design and Pond Continuous Sash give ample daylight and fresh air to the Riding Club of Chicago; Rebori, Wentworth and Dewey, Inc., Architects*

# Pond roof design brings natural light and ventilation to this great arena

THE solution of the problem of providing the necessary natural light and fresh air in this great arena building was found in the use of Pond Roof Design and Pond Continuous Sash, both originated by Lupton.

The results obtained by adapting this industrial roof design to a recreational building are highly gratifying. Pond Roof Design and Pond Continuous Sash give even daylighting and natural ventilation in the Chicago Riding Club as effectively as in great industrial plants.

### *To Architects and Engineers*

Let Lupton help you on your industrial plans. Their extensive facilities and many years of practical knowledge of daylighting problems may prove of great assistance to you. Feel free, at any time, to call for their services without obligation. Address nearest branch office. Competent men in every one.

**Write for catalogue 12C**

## DAVID LUPTON'S SONS COMPANY

**2217 E. Allegheny Ave., Philadelphia**

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| Atlanta | Buffalo | Dallas | Newark |
| Baltimore | Chicago | Detroit | New York |
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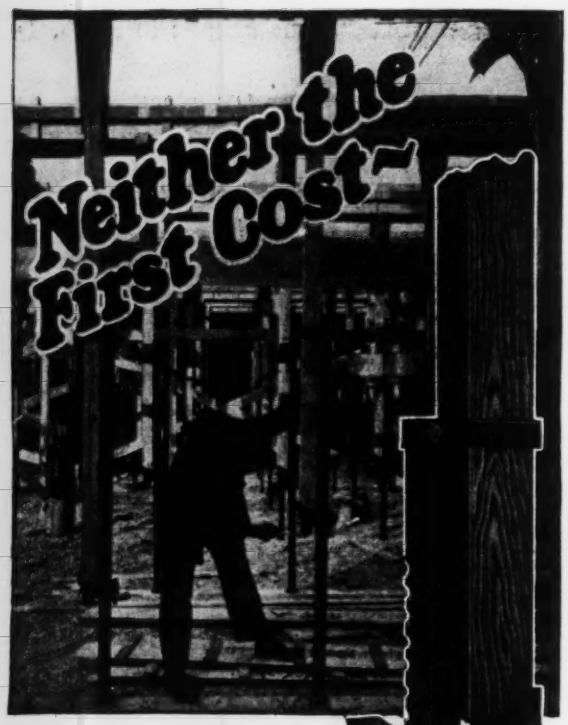
815

## *The Riding Club of Chicago*

THE Riding Club of Chicago, which has made Chicago a notable center of equestrian sports, is housed in a gigantic building in the Gold Coast section. It boasts the largest indoor riding arena in the world, as well as seats for 5000 spectators, luxurious lounges, dressing rooms, and a fine library.

Of steel and concrete construction with a Pond Truss roof, the immense building is 305 feet long, and 208 feet wide. Elaborately equipped stables accommodate some 400 horses, many of them famous blooded stock.

Fashionable society frequents the club to witness indoor polo tourneys and attend brilliant receptions. Skilled instructors are retained for beginning equestrians under the supervision of Capt. Ivanenko, ex-officer of Russian cavalry.




## ~Nor the Upkeep

The origninal cost of Symons Adjustable Shores is the lowest on the market—only $3.50. The upkeep is nothing. Will last a lifetime.

Symons Adjustable Shores carry a safe load of 10,000 pounds. Quickly set—easily adjusted with a range of 5 feet—2½ inch secondary adjustment. Can be adjusted in upward direction under full load.

### ½ Cent a Day

Rent them for 15 cents a month with a minimum charge of 75 cents. If purchased within 3 months, paid rentals apply on purchase price.

### *30 Days' Trial*

**Send in an order sufficient to fulfill your needs. If you are not satisfied with them at the end of 30 days, return at our expense.**

***Ask for Free Sample when writing for Shore Catalog***

**Symons Clamp & Mfg. Co.**
**2450 Sheffield Ave., Chicago, Ill.**

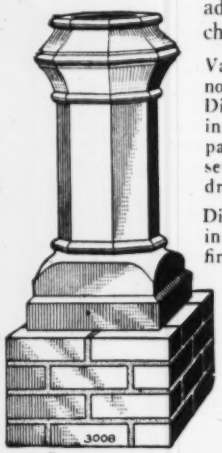
**SYMONS ADJUSTABLE SHORES**

## Chimney Tops and Pots

**Distinctive Stock Patterns—Proper Dimensions**

DISTINCTIVENESS is commendable, particularly when attained economically. Chimney tops or Pots are indispensable to English, Spanish or Italian types of architecture. A variety of patterns must be available to meet requirements of harmony and atmosphere.

Chimney Tops, to be practical, must be accurately adapted in size to the area of the chimney flue.




Variety both in designs and sizes is now obtainable at economical cost. Dickey Clay Chimney Tops are made in several standard and authentic patterns. Each pattern is made in several dimensions to insure good draft in chimneys.

Dickey Clay Chimney Tops are carried in stock. The material is hard burned fire clay; substantial and permanent, not affected by heat, cold, gases or weather. Cost much less than made-to-order specials. Prompt delivery is assured.

*See Sweet's Catalog or write nearest office for detailed information*

**W. S. DICKEY CLAY MFG. CO.**
ESTABLISHED 1885
**Birmingham, Ala. Chattanooga, Tenn. Kansas City, Mo. Macomb, Ill. Macon, Ga. San Antonio, Texas Texarkana, Texas**

## PEELLE Freight Elevator DOORS

*Counterbalanced-Truckable*

See our Page advertisement in the July 2nd issue of this publication
*Write for Catalog*
**THE PEELLE COMPANY, BROOKLYN, N. Y.**
Boston, Chicago, Cleveland, Philadelphia and 12 other cities.

Steelcrete

**CONCRETE REINFORCEMENT**

FLAT SHEETS, readily handled, quickly placed—Steelcrete, the ideal reinforcement. Saves, pays.

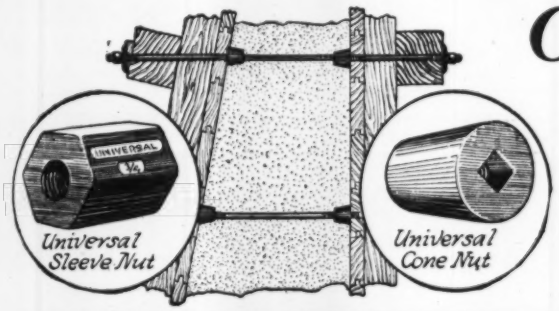
**The Consolidated Expanded Metal Co's**
**BRADDOCK, PA.**
Pittsburgh Chicago New York Philadelphia
Cleveland Detroit Minneapolis

**NATIONAL STEEL FABRIC**
REINFORCEMENT FOR CONCRETE
NATIONAL STEEL FABRIC CO

NEMCO PRODUCTS

**Econo**
STEEL MESH REINFORCING
Northwestern Expanded Metal Co.
900 Old Colony Bldg. Chicago

# UNIVERSAL
## *Cone & Sleeve Nuts*




Universal Cone and Sleeve Nuts hold the forms rigidly and accurately while concrete is being poured. The Cone Nuts are removed and used again and again.
The Hexagon Sleeve Nuts are left in the wall and are excellent for use on water-tight work.
Write for quotations on standard or special size Cone and Sleeve Nuts and threaded bolts.

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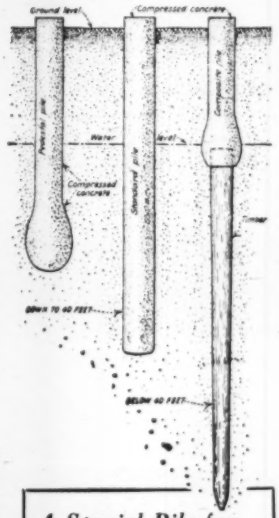
are all driven without change of rigging, thereby eliminating costly delays, when unexpected conditions necessitate change of plans.

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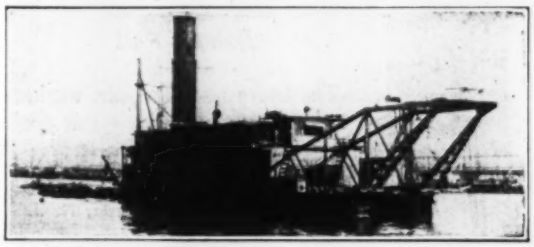
## Dredging



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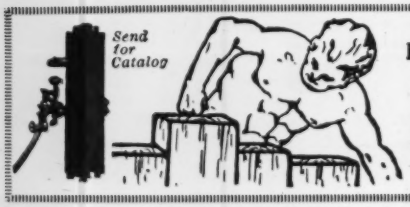


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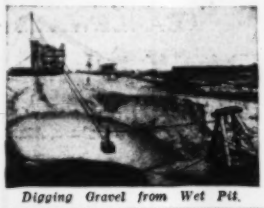

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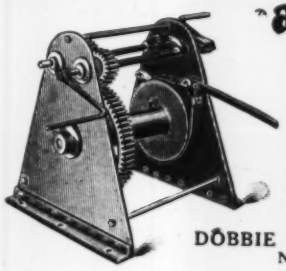

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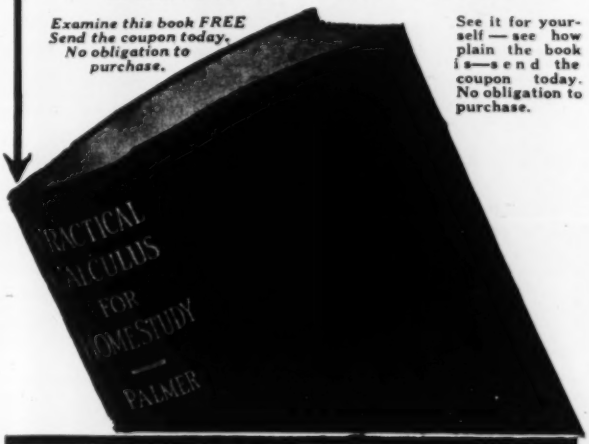


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**In types and sizes to meet all requirements of contractors' hoisting and haulage work.**

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The First Step in the Design and Construction of the Lidgerwood Hoists is a thorough study, in the field, of the work the Hoist has to do.

The Hoist is then properly designed and built to do that work.

**HOISTS** **DERRICKS** **CABLEWAYS**

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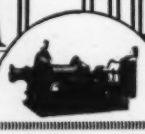
FOR EVERY REQUIREMENT — STEAM-ELECTRIC-GASOLINE



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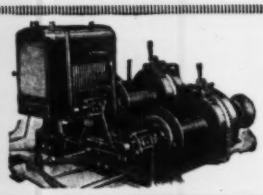

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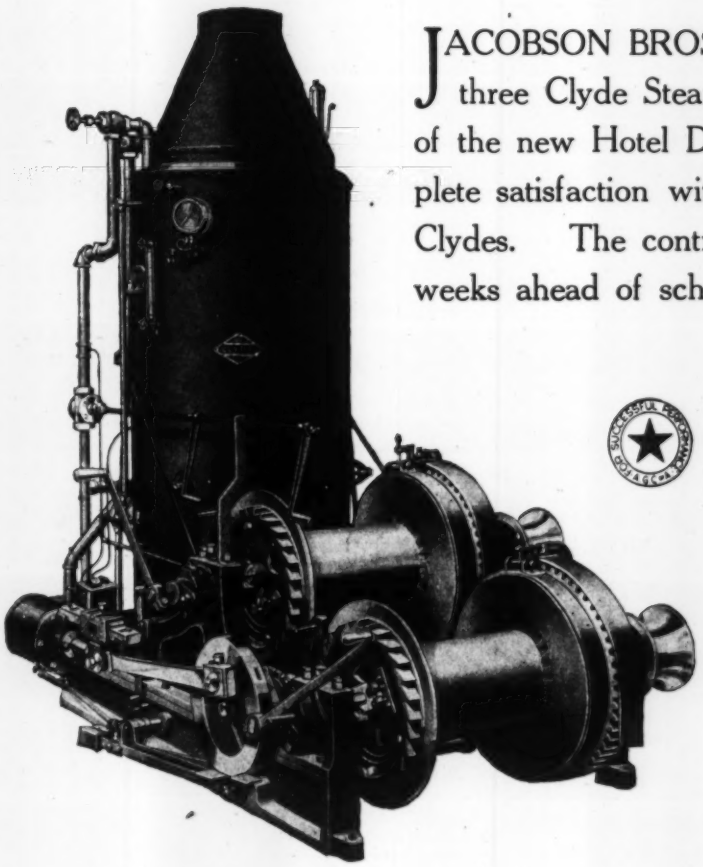
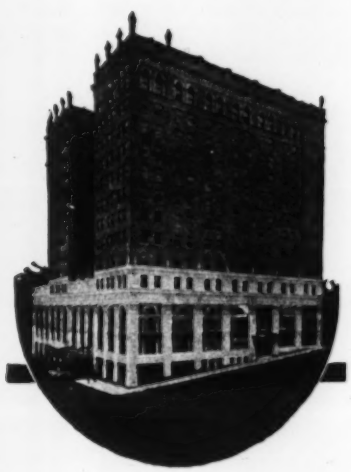


JACOBSON BROS., General Contractors, used three Clyde Steam Hoists in the construction of the new Hotel Duluth. They express complete satisfaction with the performance of their Clydes. The contract was completed some weeks ahead of schedule.



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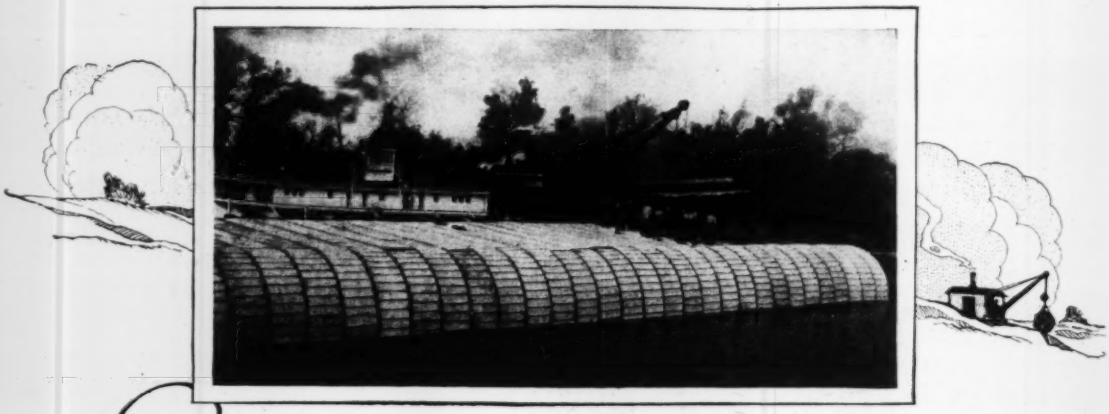

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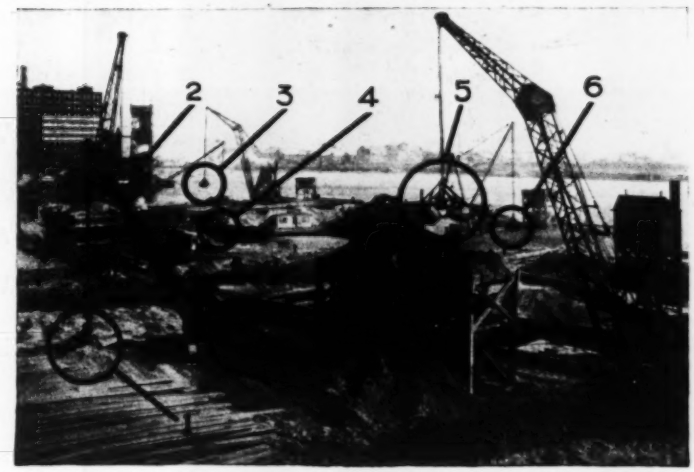
Note how this Hayward Clam Shell Bucket cleans up the deck of the barge—one of the reasons for the quick unloading ability of Haywards.



This Hayward digs a big load and then dumps it freely and quickly.

## Why Haywards predominate

Groups of Hayward Buckets, like that shown above, are commonly found where large quantities of bulk materials must be handled speedily. In addition to speed Haywards possess qualities which are the result of more than 40 years of experience in building all types of buckets.

*Overload capacity*—
Because the rating of all Hayward Buckets is based on level measurement, all crowned load is overload.

*Strength*—
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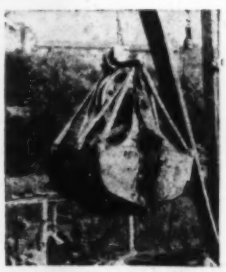
*Clean, Free Dumping*—
contributing to the speedy work of Hayward Buckets. Note in the view at the left how most of the load has left the bucket—and the bucket only partly opened.

*Send for Catalogs and Bulletins describing these features of Haywards in greater detail.*

Handling a 16-ton rock from the bottom of a river.



Showing an overload bite in hard packed soil.

THE HAYWARD COMPANY
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*Builders of Clam Shell, Orange Peel, Drag Line, and Electric Motor*

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*Buckets; Excavating, Dredging, and Coal Handling Machinery.*

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*A Bucketful*

Get the bucket that gives you a bucketful at every "bite"—often heaped up and running over: The O-S Type "V" Clam Shell Bucket. Why?

1. Weight enough to bury itself in the material.
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3. Spread enough to collect a bucket load every time.

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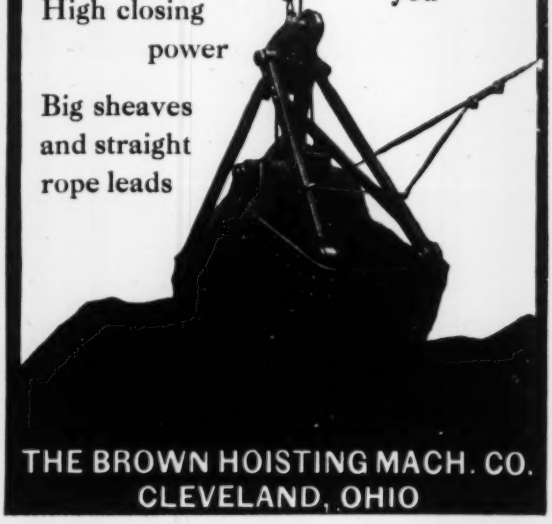
BROWNHOIST CLAMSHELLS

Built rugged throughout

High closing power

Big sheaves and straight rope leads

Prices that will interest you



THE BROWN HOISTING MACH. CO.
CLEVELAND, OHIO

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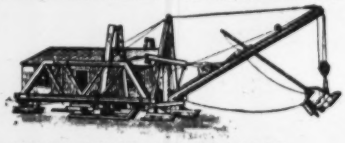

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EASILY DISMANTLED, TRANSPORTED AND ASSEMBLED

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EXCAVATORS
POWER SHOVELS

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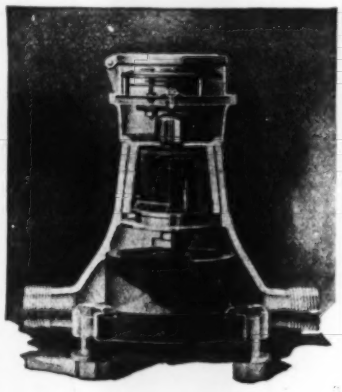

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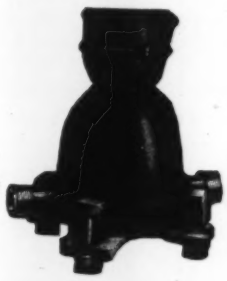

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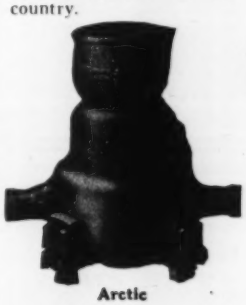
The TROPIC—An all-bronze Water Meter, with connection spuds attached to the lower case. Particularly designed for warm sections of the country.

Tropic



Arctic

The ARCTIC—A frost-bottom Water Meter, especially designed for cold sections of the country.

These two meters embody exactly the same mechanical features, the only difference being the changes necessary to provide a frost-breaking feature in the Arctic.

Either of these meters will be equipped with a COMPLETELY ENCLOSED intermediate train RUNNING IN OIL, if desired.

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*Type MSV Chlorinators Installed at the Easterly Sewage Disposal Works, Cleveland Ohio*

THE largest chlorinator installation in the World disinfects Sewage to protect Bathing Beaches.

*"The only safe Water is a Sterilized Water"*

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COMPANY, INCORPORATED
*Manufacturers of Chlorine Control Apparatus*
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**FILTERS**
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This light, durable machine will be sent on approval for 30 days trial If not as represented, send it back.

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**FLEXIBLE JOINTS**
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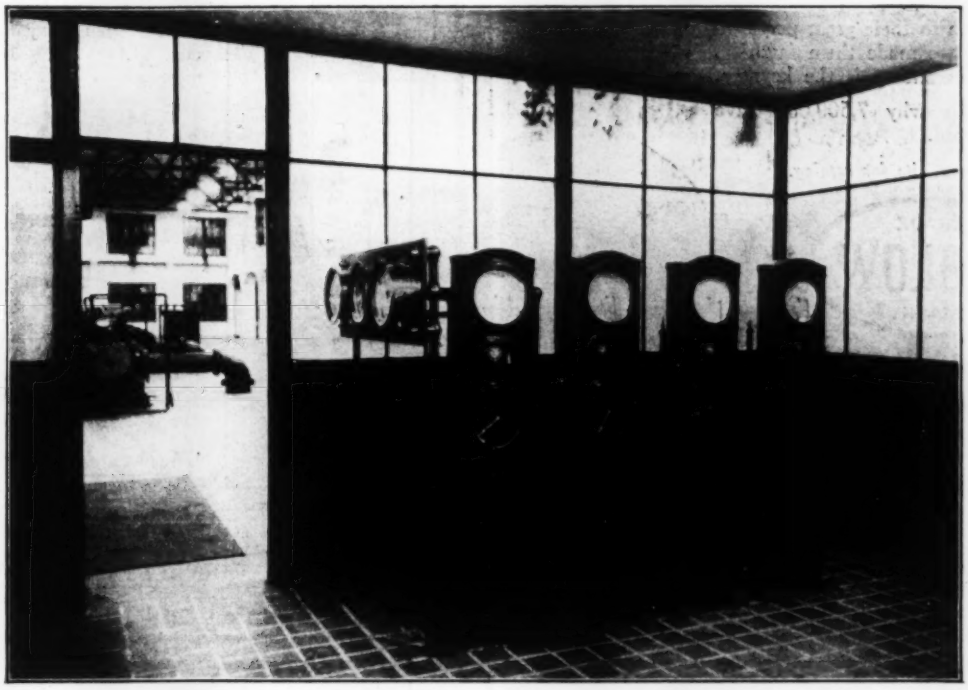
Simplicity Service Satisfaction
*Bulletin 28 Tells the Story*
SIMPLEX VALVE & METER CO.,
300 Fidelity Building, Philadelphia, Pa.

# A Venturi Battery in the South



Charlotte, N. C. can well be proud of its new filtration plant. Designed by William M. Piatt, Consulting Engineer, and under the superintendence of Mr. W. E. Vest, it is capable of furnishing daily to the city 8,000,000 gallons of pure water.

Not the least item of pride is the battery of four VENTURI METERS which account daily for the total water entering and leaving the plant and for every variation in rate of supply or output. Furthermore they form a continuous check upon the efficiency of pumps and operators.

*No up-to-date waterworks plant is now considered complete unless Venturi-equipped*

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***Put in your valves "once for all"***

By installing Ludlow Valves. Their simple construction combined with their great performance have made them favorites where economy is the keynote.

That is why 7,500,000 have been sold.

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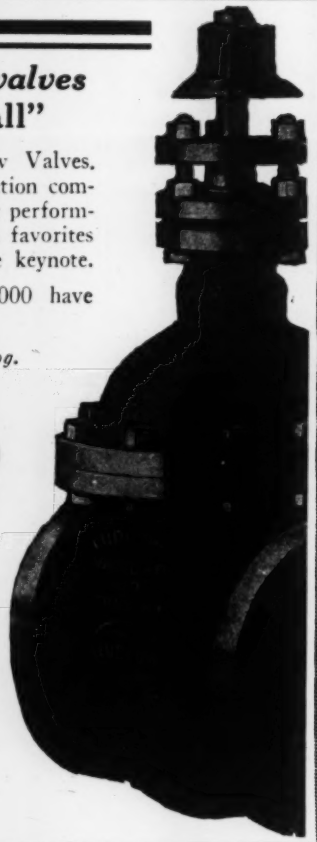

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**Troy, N. Y.**

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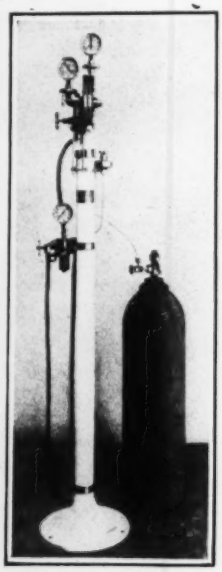
**Atlanta, Ga.**

# PARADON Chlorinator Installations



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A chlorinator is in the final analysis judged chiefly by its performance.

We refer you to any of the numerous PARADON INSTALLATIONS included among which are:

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Poughkeepsie, N.Y. (Water Dept.)
Norristown, Pa. (Water Co.)
Media, Pa. (Water Co.)
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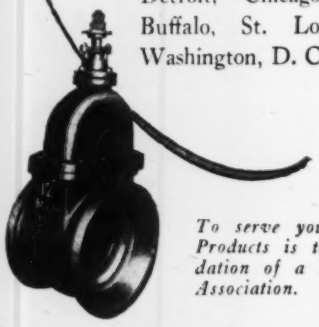
**Universal Satisfaction**

is evidenced by the installation of "Michigan" built equipment during the year 1924 by such Cities as Detroit, Chicago, New York, Buffalo, St. Louis, St. Paul, Washington, D. C., New Orleans.



*To serve you with Michigan Products is to Lay the Foundation of a Lifetime Business Association.*

**Michigan Valve and Foundry Company**
Established 1852

DETROIT MICHIGAN

# Extra Heavy Valves for high pressures

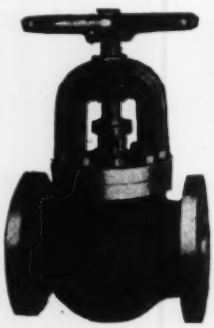


*Fig. 162, flanged, Jenkins Iron Body Globe Valve, Extra Heavy pattern.*

Jenkins Extra Heavy Valves can be used with entire safety on working steam pressures up to 250 lbs. and working water pressures up to 400 lbs. Their design and construction are typically Jenkins and give great strength and rigidity — sufficient to easily withstand strains and stresses due to expansion and contraction of piping, and other causes.

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JENKINS BROS., Limited
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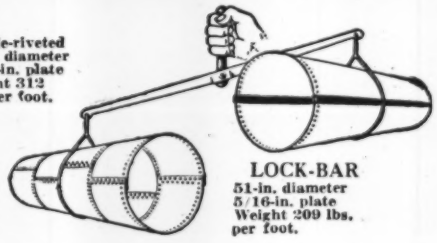
Always marked with the "Diamond"
**Jenkins Valves**
SINCE 1864

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NATIONAL
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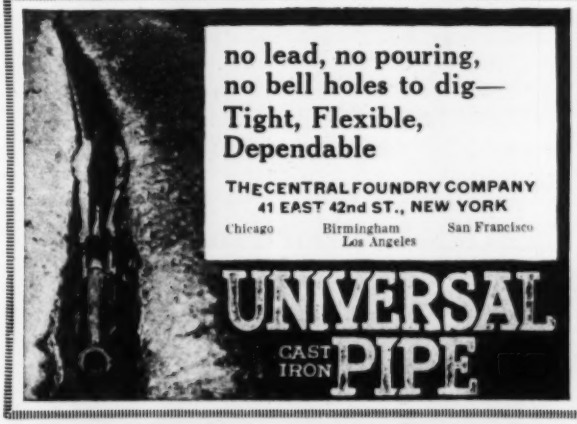


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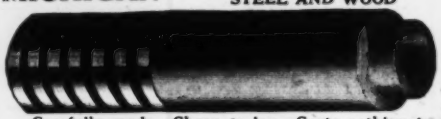

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Fully 50% stronger than Straight Riveted Pipe of equal thickness. Light weight and simplicity of bolted connections results in low handling and installation expense. Suitable for Conveying Water, Air, Gas, Exhaust Steam and Wood Pulp.

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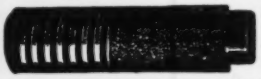

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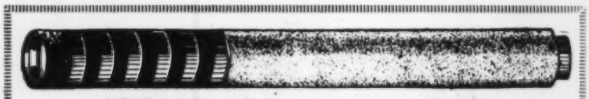

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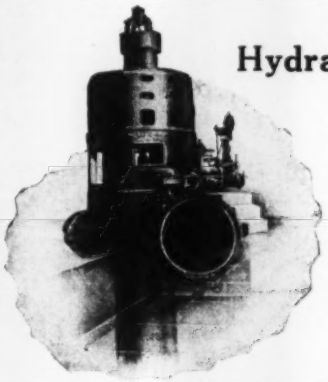

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of sizes and types to meet every conceivable water power requirement.

If interested, write Dept. "E" for Bulletin and submit your problems to our Engineering Department.

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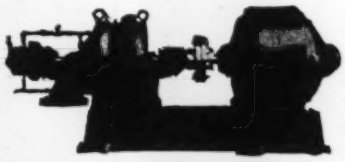
Meeting common and uncommon pumping requirements has been our specialty for over three generations.



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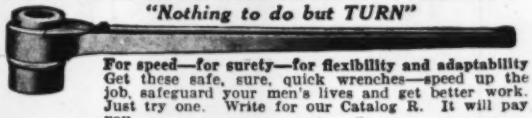

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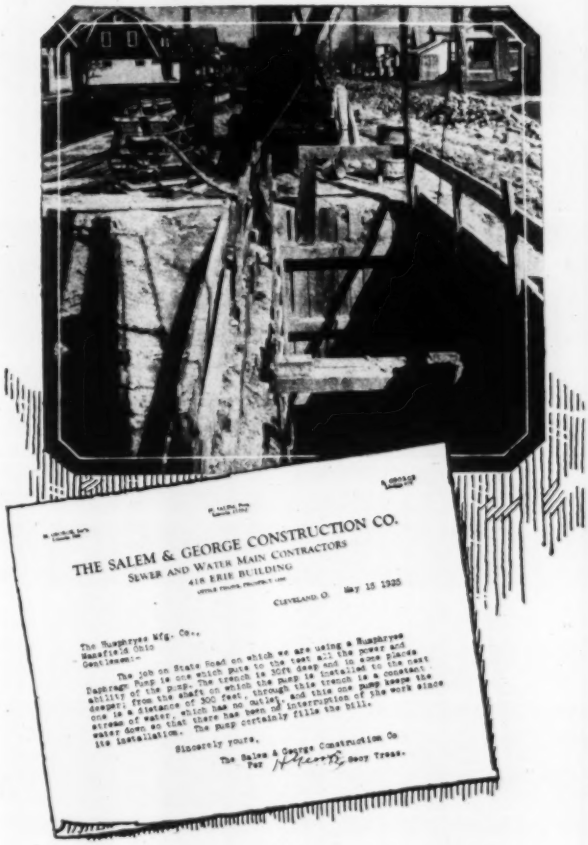
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SEWER AND WATER MAIN CONTRACTORS
418 ERIE BUILDING
CLEVELAND, O. May 15 1925
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Mansfield Ohio
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Diaphragm Pump is one which puts to the test all the power and
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deeper, from the shaft on which the pump is installed to the next
one is a distance of 300 feet, through this trench is a constant
stream of water, which has been, and this one pump keeps the
water down so that there has been no interruption of the work since
its installation. The pump certainly fills the bill.
Sincerely yours,
The Salem & George Construction Co
Per
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# 1 pump—*lifts water 30 feet*

## and drains 300 ft. of trench—

**That's a real job!**

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The uniform, maintained suction of the Double Diaphragm pump makes possible such records of performance. The suction valve is made of high-grade materials (pure rubber with duck insertion) and is of the flap, non-clogging type.

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COMPLETE POWER PLANTS

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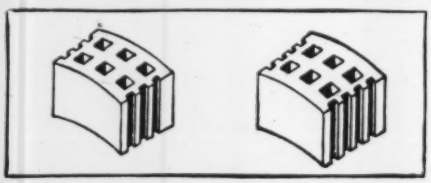
Sales offices throughout the world



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have been built to meet every boiler, smelter and furnace plant condition. Wide experience in building is one of the reasons why there is no failure on record. Let us submit a preliminary design and cost estimate. **Write for Bulletin No. 60.**

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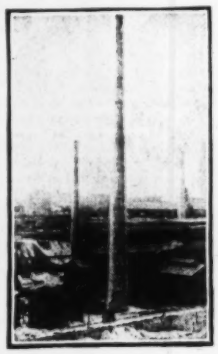

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Put our 60 years of highly specialized training and experience to work on your chimney problems

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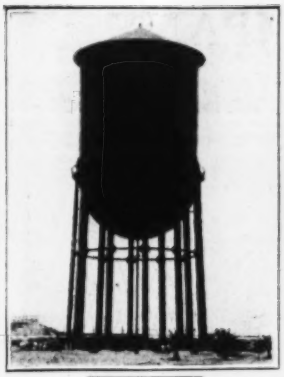

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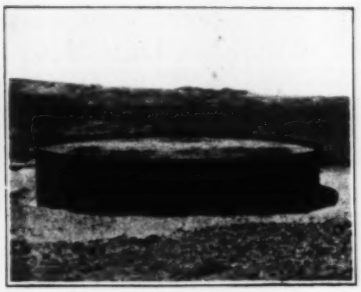

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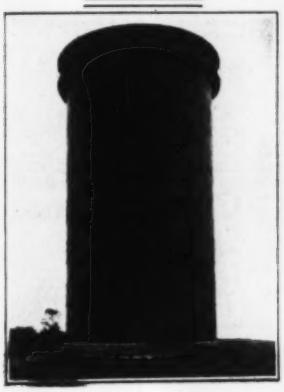

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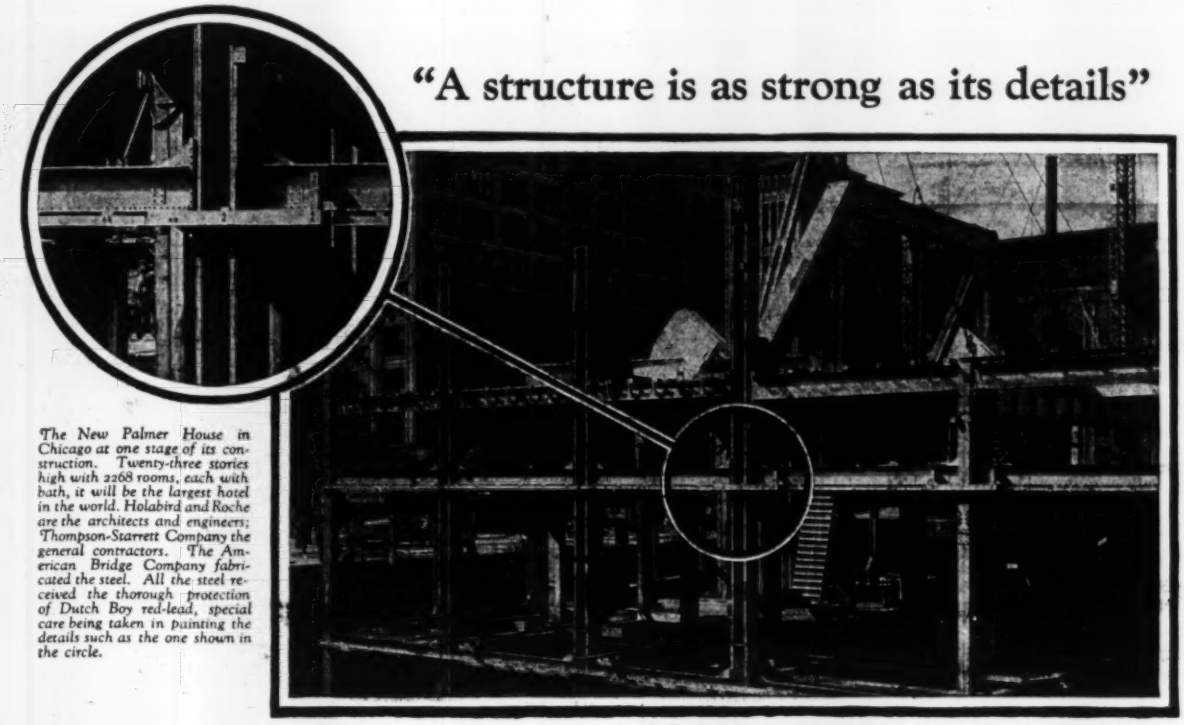

*The New Palmer House in Chicago at one stage of its construction. Twenty-three stories high with 2268 rooms, each with bath, it will be the largest hotel in the world. Holabird and Roche are the architects and engineers; Thompson-Starrett Company the general contractors. The American Bridge Company fabricated the steel. All the steel received the thorough protection of Dutch Boy red-lead, special care being taken in painting the details such as the one shown in the circle.*

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# What the public overlooked was the engineers' biggest job

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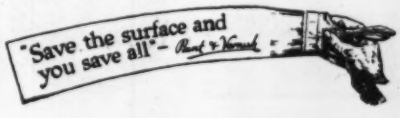


Dutch Boy red-lead comes in both paste and liquid form. The paste is obtainable in the natural orange-red color and can be shaded to browns, greens, and black. The liquid comes in the natural orange-red color and also comes shaded to light and dark brown, light and dark green, and black for finishing coats.

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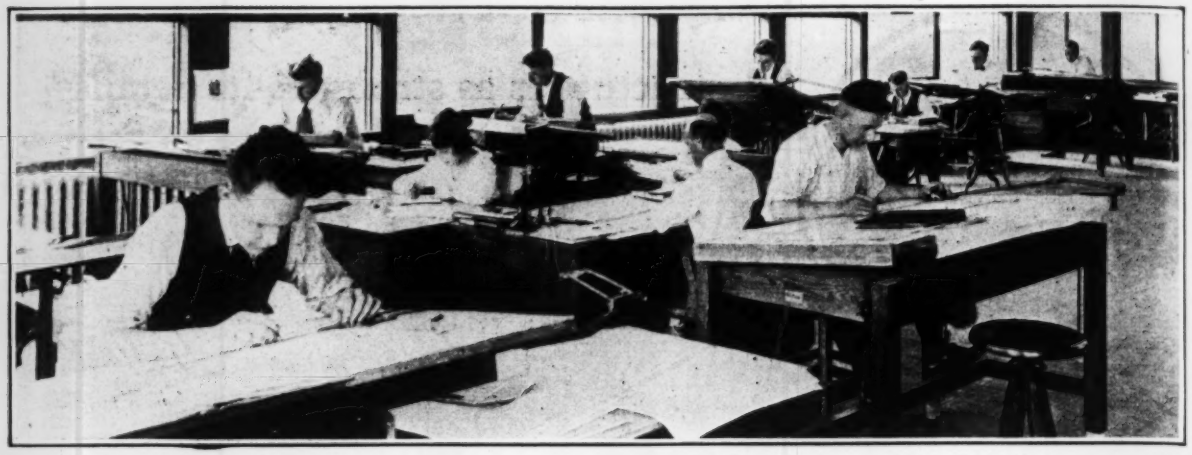

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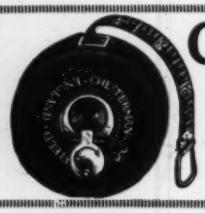

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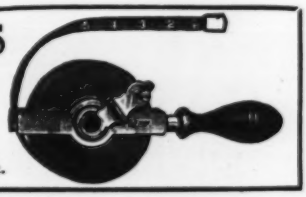

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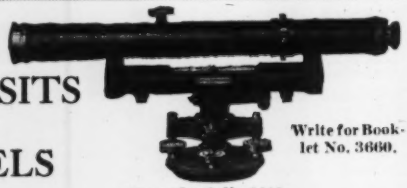

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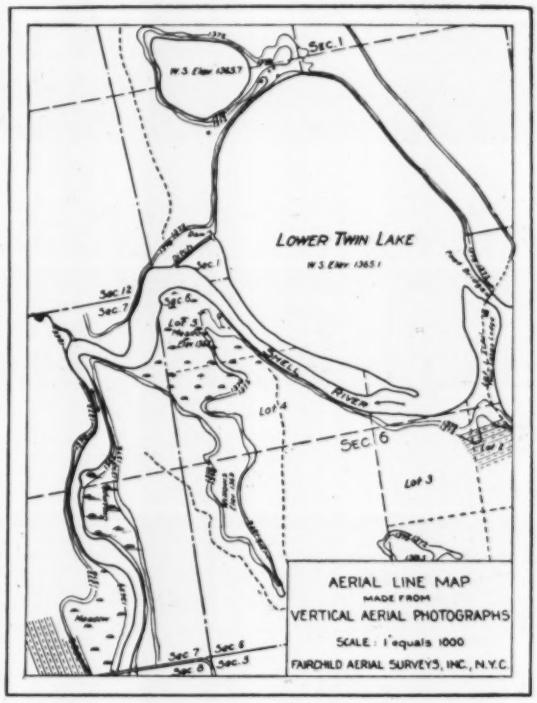


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Hayward Co.
Industrial Works
Lakewood Engineering Co.
Link-Belt Co.
McMyler Interstate Co.
Mead Morrison Mfg. Co.
Orton & Steinbrenner Co.
Owen Bucket Co.
Williams Co., G. H.
**Buckets, Concrete**
Insley Mfg. Co.
Ransome Concrete Mchy. Co.
Union Iron Works
**Buckets, Dragline**
Brown Hoisting Mchy. Co.
Hayward Co.
**Buckets, Dredging and Excavating**
Blaw-Knox Co.
Haiss Mfg. Co., Inc., Geo.
Marion Steam Shovel Co.
Mead Morrison Mfg. Co.
Osgood Co.
Owen Bucket Co.
Union Iron Works
Williams Co., G. H.
**Buckets, Elevator**
(See Elevators, Bucket)
**Buckets, Orange Peel**
The Browning Co.
Hayward Co.
McMyler Interstate Co.
Mead Morrison Mfg. Co.
Orton & Steinbrenner Co.
Owen Bucket Co.
**Building Paper**
Carey Co., The Philip
**Buildings, Steel**
American Bridge Co.
Belmont Iron Works
Blaw-Knox Co.
Truscon Steel Co.
**Cableways**
Blaw-Knox Co.
Flory Mfg. Co., S.
Hayward Company
Lidgerwood Mfg. Co.
Mead Morrison Mfg. Co.
Mundy Hoisting Eng. Co.,
Wickwire Spencer Steel Co.
**Cableway Excavators**
(See Excavators Cableway)
**Caissons**
Bethlehem Steel Co.
Graver Corpn.
**Cars, Industrial V Dump**
Insley Mfg. Co.
Lakewood Engineering Co.
Ramapo Ajax Co.
**Car Steps, Safety**
Irving Iron Wks. Co.
**Carts, Concrete**
Insley Mfg. Co.
Ransome Concrete Mchy. Co.
Sterling Wheelbarrow Co.
**Castings, Iron and Steel**
Amer. Cast Iron Pipe Co.
Bethlehem Steel Co.
Central Foundry Co.
Chain Belt Co.
Fox & Co., John
McWane Cast Iron Pipe Co.
Marion Malleable Iron Wks.
Marion Steam Shovel Co.
U.S. Cast Ir. Pipe & Fdy. Co.
Vulcan Iron Works of Pa.
Warren Fdry. & Pipe Co.
**Castings, Street and Sewer**
Central Foundry Co.
U. S. C. I. Pipe & Fdy. Co.
**Cement**
Lawrence Cement Co.
Portland Cement Assn.
Vulcanite Port. Cement Co.
**Cement Guns**
Cement-Gun Co.
**Cement-Gun Constr.**
Cement Gun Co., Inc.
Cement-Gun Constr. Co.
Gunite Concrete & Const. Co.
Weber Engineering Co.
**Cement-Making Machinery**
Allis-Chalmers Mfg. Co.
Austin Machy. Corp.
Vulcan Iron Works of Pa.
**Cement Special**
Atlas Lumnite Cement Co.
**Centers, Steel, Collapsible**
Blaw-Knox Co.
**Chain, Steel and Malleable Sprocket**
Brown Hoisting Mchy. Co.
Chain Belt Co.
Haiss Mfg. Co., Geo.
Link-Belt Co.
Ryerson & Son, Joseph T.
Webster Mfg. Co.
**Channelers**
Sullivan Mchy. Co.
**Chimneys, Concrete**
General Concrete Constr. Co.
Heine Chimney Co.
Rust Engineering Co.
Summerhays & Sons Co.,
Weber Chimney Co.
**Chimneys, Radial Brick**
American Chimney Corp.
Ballard, Sprague & Co.
Custodis Chimney Construction Co., Alphons
Heine Chimney Co.
Kellogg Co., M. W.
Rust Engineering Co.
Summerhays & Sons Co.,
**Chimneys, Steel**
Blaw-Knox Co.
Chicago Bridge & Iron Wks.
Connery Company
Graver Corpn.
Honhorst Co., The Jos.
Littleford Bros.
**Chlorinators**
Paradon Engineering Co.
Wallace & Tiernan Co., Inc.
**Chlorine, Liquid**
Electro Bleach. Gas Co.
Paradon Engineering Co.
Wallace & Tiernan Co., Inc.
**Chutes, Concrete**
Insley Mfg. Co.
Lakewood Engr. Co.
Ransome Concrete Mchy. Co
**Clutches, Friction**
Webster Mfg. Co.
**Coal & Ore-Conveying Mchy.**
Barber-Greene Co.
Brown Hoisting Mchy. Co.
Chain Belt Co.
Haiss Mfg. Co., Inc., Geo.
Lidgerwood Mfg. Co.
Link-Belt Co.
McMyler Interstate Co.
Mead Morrison Mfg. Co.
Nelson Iron Works, N. P.
Specialty Engr. Co.
Webster Mfg. Co.
**Coal-Storage Systems**
Haiss Mfg. Co., Geo.
Lidgerwood Mfg. Co.
Link-Belt Co.
Mead Morrison Mfg. Co.
**Cofferdams, Steel**
Bethlehem Steel Co.
**Column Clamps**
Concrete Steel Co.
Universal Form Clamp Co.
**Column Forms**
Blaw-Knox Co.
Concrete Steel Co.
Heltzel Steel Form & Ir. Co.
**Column, Wrapping**
National Steel Fabric Co.
**Compositions, Anti-Corrosive**
Walles Dove-Hermiston Corp.
**Compressors, Air, Heavy Duty**
Allis-Chalmers Mfg. Co.
Buhl Company
Chicago Pneumatic Tool Co.
Ingersoll-Rand Co.
McKiernan-Terry Drill Co.
Sullivan Mchy. Co.
**Compressors, Air, Portable**
Buhl Company
Cement-Gun Co.
Chicago Pneumatic Tool Co.
Domestic Engine & Pump Co.
General Electric Co.
Ingersoll-Rand Co.
Schramm, Inc.
Sullivan Mchy. Co.
**Concrete Floor Hardener**
Anti-Hydro Waterpr'f'g Co.
Sonneborn Sons, Inc., L.
Truscon Laboratories
**Concrete Making Machinery**
Koehring Company
Ransome Concrete Mchy. Co
**Concrete Reinforcement**
American Steel & Wire Co.
Bethlehem Steel Co.
Brown Hoisting Mchy. Co.
Carnegie Steel Co.
Concrete Steel Co
Consolidated Expanded Metal Cos.
Kalman Steel Co.
Laclede Steel Co.
National Steel Fabric Co.
Northwestern Expanded Metal Co.
Ryerson & Son, Joseph T.
Truscon Steel Co.
U. S. Gypsum Co.
Universal Form Clamp Co.
Wickwire Spencer Steel Co.
**Concrete Surfacer, Liquid**
Concrete Surfacer Corp.
**Condensers**
Ingersoll-Rand Co.
Westinghouse Electric & Mfg. Co.
**Conduits, Vitrified Clay**
Clermont Clay Prod. Co.
**Contractors**
Cement-Gun Construction Co.
Gunite Concrete & Const. Co.
MacArthur Conc. Pile & Foundation Co.
Merritt-Chapman & Scott Corp.
Olympian Dredging Co.
Post & McCord, Inc.
Spencer, White & Prentis
Terry & Tench Co., Inc.
**Contractors Well Drilling**
Artesian Well & Supply Co.
**Conveyors, Belt**
Austin Western Road Mchy. Co.
Barber-Greene Co.
Brown Hoisting Mchy. Co.
Chain Belt Co.
Haiss Mfg. Co., Inc., Geo.
Link-Belt Co.
Specialty Engr. Co.
Webster Mfg. Co.
**Conveyors, Bucket**
Barber-Greene Co.
Brown Hoisting Mchy. Co.
Chain Belt Co.
Haiss Mfg. Co., Inc., Geo.
Nelson Iron Works, N. P.
Specialty Engr. Co.
Webster Mfg. Co.
**Corner Bead Metal**
Consolidated Expanded Metal Cos.
Northwestern Expanded Metal Co.
Truscon Steel Co.
**Cranes, Crawling Tractor**
Austin Machinery Corp.
Harnischfeger Corp.
Industrial Works
Koehring Company
Link-Belt Co.
McMyler Interstate Co.
Northwest Engrg. Co.
Pawling & Harnischfeger
Universal Crane Co.
**Cranes, Electric**
Harnischfeger Corp.
Industrial Works
McMyler Interstate Co.
Northwest Engrg. Co.
Pawling & Harnischfeger
Universal Crane Co.
**Cranes, Gasoline**
Austin Machinery Corp.
Harnischfeger Corp.
Koehring Company
McMyler Interstate Co.
Pawling & Harnischfeger
**Cranes, Locomotive**
Austin Machinery Corp.
Bay City Dredge Works
Brown Hoisting Mchy. Co.
Browning Co., The
Erie Steam Shovel Co.
Harnischfeger Corp.
Industrial Works
Link-Belt Co.
McMyler Interstate Co.
Marion Steam Shovel Co.
Northwest Engrg. Co.
Ohio Locomotive Crane Co.
Orton & Steinbrenner Co.
Osgood Co.
Pawling & Harnischfeger
Thew Shovel Co.
Universal Crane Co.
**Cranes, Motor-Truck**
Bay City Fdy. & Mchy. Co.
Universal Crane Co.
**Cranes, Traveling**
Brown Hoisting Mchy. Co.
Harnischfeger Corp.
Northern Engineering Wks.
Pawling & Harnischfeger
Toledo Crane Co.
**Cranes, Wrecking**
Browning Co., The
**Creosoted Blocks, Timber Poles, Cross-Arms Lumber,**
American Creosote Wks., Inc.
Amer. Creosoting Co. (Ky.)
Colonial Creosoting Co.
Eppinger & Russell Co.
Georgia Creosoting Co.
Jennison-Wright Co.
Southern Wood Preserv. Co.
Wyckoff Pipe & Creo. Co.
**Creosoting**
Amer. Creosoting Co. (Ky.)
Barrett Co., The
Colonial Creosoting Co.
Eppinger & Russell Co.
Georgia Creosoting Co.
Jennison-Wright Co.
Savannah Creosoting Co.
Tar Products Corp.
Wyckoff Pipe & Creo. Co.
**Creosoting Oils**
Barrett Co., The
Protexol Corp.
**Crushers and Pulverizers**
Allis-Chalmers Mfg. Co.
Austin Western Rd. Mchy. Co.
Brown Hoisting Mchy. Co.
United Iron Wks.
Universal Rd. Mchy. Co.
**Culverts, Corrugated**
Armco Culvert & Flume Mfrs. Assn.
Austin-Western Road Machy. Co.
Canton Culvert & Silo Co.
Hardesty Mfg. Co., The R.
**Culverts, Metal**
Amer. Sheet & Tin Plate Co
Armco Culvert & Flume Mfrs. Assn.
Austin-Western Road Machy. Co.
Hardesty Mfg. Co., The R.
U.S. Cast Ir. Pipe & Fdy. Co
**Culverts, Nestable & Rivited Corrugated**
Armco Culvert & Flume Mfrs. Assn.
Canton Culvert & Silo Co.
**Curb Guard, Steel**
Godwin Co., W. S.
**Curbs, Steel Protected**
Concrete Steel Co.
Truscon Steel Co.
**Dams**
Ambursen Construction Co
**Dealers, Equipment**
(See Searchlight Section)
**Derricks and Derrick Fittings**
Amer. Terry Derrick Co.
Clyde Iron Works Sales Co
Dobbie Fdry. & Mach. Co.
Haiss Mfg. Co., Geo.
Hayward Co.
Insley Mfg. Co.
Lidgerwood Mfg. Co.
McMyler Interstate Co.
Mundy Hoisting Eng. Co.,
**Distributors, Pressure Oil**
(See Road Oilers, Pressure)
**Ditching Machinery**
(See Excavators)
**Docks and Harbor Work**
Merritt-Chapman & Scott Corp.
Raymond Concrete Pile Co.
Snare Corp., Frederick
**Doors & Shutters, Steel Rolling**
Peelle Company, The
Lupton's Sons Co., David
Wilson Corp., The J. G.
**Drafting Machines**
Universal Drafting Mch. Co.
**Drafting Room Furniture and Supplies**
Dietzgen Co., Eugene
Hamilton Mfg. Co.
Pease Co., C. F.
**Draglines**
Austin Machinery Corp.
Bucyrus Company
Harnischfeger Corp.
Koehring Company
Northwest Engrg. Co.
Pawling & Harnischfeger
Universal Crane Co.
**Drawing Instruments**
Pease Co., The C. F.
**Drawing Materials**
Dietzgen Co., Eugene
Hamilton Mfg. Co.
Keuffel & Esser Co.
Pease Co., The C. F.
**Drawing Tables**
(See Tables and Bds. Drg.)
**Dredges**
Bucyrus Company
Ellicott Machine Corp.
Hayward Co.
Lidgerwood Mfg. Co.
Marion Steam Shovel Co.
**Dredges, Dipper**
Austin Mchy. Corp.
Bucyrus Company
Ellicott Machine Corp.
Erie Steam Shovel Co.
Osgood Co.
**Dredges, Hydraulic**
Atlantic Gulf & Pacific Co
Bucyrus Company
Ellicott Machine Corp.
Marion Steam Shovel Co.
Morris Machine Wks.
**Drills, Blast Hole**
Sanderson-Cyclone Drill Co
**Drills, Core**
Ingersoll-Rand Co.
McKiernan-Terry Drill Co
Sprague & Henwood Inc.
Sullivan Mchy. Co.
**Drills, Rock**
Chicago Pneumatic Tool Co.
Cleveland Rock Drill Co.
General Electric Co.
Ingersoll-Rand Co.

As a further extension of Robert W. Hunt Company's facilities for service, a district office and laboratory are now being opened at Birmingham, Alabama.

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Sullivan Mchy. Co.

**Drums, Counterweight**
Hayward Company

**Drums, Holding**
Blaw-Knox Co.
Haiss Mfg. Co., Inc., Geo.
Hayward Co.

**Dryers**
Blaw-Knox Co.

***Dryers, Sand and Gravel***
Vulcan Iron Works of Pa.

**Elevators, Bucket**
Austin Western Rd. Mchy. Co.
Brown Hoisting Mchy. Co.
Chain Belt Co.
Haiss Mfg. Co., Inc., Geo.
Link-Belt Co.
Nelson Iron Works, N. P.
Ohio Locomotive Crane Co.
Webster Mfg. Co.

**Elevators; Contractors' Material**
Austin Western Rd. Mchy. Co.
Barber-Greene Co.
Haiss Mfg. Co., Inc., Geo.
Insley Mfg. Co.
Ransome Concrete Mchy. Co

**Engineers, Roofing**
Amer. Cement Tile Mfg. Co.
Federal Cement Tile Co.

**Engineers**
(See Directory of Engrs.)
Atlantic Gulf & Pacific Co.
MacArthur Conc. Pile & Foundation Co.
Merritt-Chapman & Scott Corp.
Olympian Dredging Co.
Post & McCord, Inc.
Raymond Concrete Pile Co.
Spencer, White & Prentis
Terry & Tench Co., Inc.

**Engineers' and Draftsmen's Instruments and Supplies**
Beckmann Co., L.
Dietzgen Co., Eugene
Hamilton Mfg. Co.
Gurley, W. & L. E.
Keuffel & Esser Co.
Lufkin Rule Co.
Precision Level Vial
Stewart Iron Works Co.
Wiebush & Hilger, Ltd.

**Engineers, Roofing**
U. S. Gypsum Co.

**Engines, Gas, Gasoline & Oil**
Allis-Chalmers Mfg. Co.
Buda Co., The
Chicago Pneumatic Tool Co.
Climax Engr. Co.
Ingersoll-Rand Co.
Schramm, Inc.

**Engine, High Duty & Water Wheel**
Morris Machine Co.

**Engines, Hoisting**
(See Hoists)

**Engines, Portable**
Climax Engr. Co.

**Engines, Steam**
Chicago Pneumatic Tool Co.

**Engines, Traction**
Best Tractor Co., C. L.

**Excavator, Cableway**
Lidgerwood Mfg. Co.
Mead Morrison Mfg. Co.
Sauerman Bros.

**Excavators, Ditch & Trench**
Austin Mchy. Corp.
Bay City Dredge Works
Buckeye Tract. Ditcher Co.
Harnischfeger Corp.
Marion Steam Shovel Co.
Moore Trench Mch. Co.
Northwest Engrg. Co.
Osgood Co.
Parsons Co.
Pawling & Harnischfeger
Thew Shovel Co.

**Excavators, Dragline**
Austin Machinery Corp.
Bay City Dredge Works
Bucyrus Company
Erie Steam Shovel Co.
Harnischfeger Corp.
Hayward Co.
Koehring Company
Link-Belt Co.
Marion Steam Shovel Co.
McMyler-Interstate Co.
Mead Morrison Mfg. Co.
Northwest Engrg. Co.
Pawling & Harnischfeger
Sauerman Bros.

**Expanded Metal**
Consolidated Expanded Metal Cos.
Northwestern Expanded Metal Co.
Truscon Steel Co.

**Expansion Bolts**
National Lead Co.

**Filters, Water, Municipal and Industrial**
Amer. Water Softener Co.
Grinnell Co.
Leopold Co., F. B.
Norwood Engr. Co.
Roberts Filter Mfg. Co.

**Fireproofing Material & Construction**
National Steel Fabric Co.
Northwestern Expanded Metal Co.
Peelle Company, The
Truscon Steel Co.

**Floors, Asphalt Blocks**
Hastings Pavement Co.

**Floor, Asphalt Mastic**
Standard Oil Co. of N. Y.

**Floor Hardener, Concrete**
(See Conc. Floor Hardener)

**Floor, Wood Block**
Barrett Co., The
Jennison-Wright Co.
Southern Wood Preserv. Co.

**Flooring, Fireproof**
Irving Iron Works
Kerlow Steel Flooring Co.
National Steel Fabric Co.
Structural Gypsum Co.
Wood Iron & Steel Co., Alan

**Flumes**
Continental Pipe Mfg. Co.

**Flumes, Iron & Steel**
Armco Culvert & Flume Mfrs. Assn.
Blaw-Knox Co.
Hardesty Mfg. Co., R.

**Forgings**
Bethlehem Steel Co.
Carnegie Steel Co.

**Form Clamps**
Concrete Steel Co.
Insley Mfg. Co.
Universal Form Clamp Co.

**Form Tighteners**
Concrete Steel Co.
Hawley Tie Bolt Co.
Marion Malleable Iron Wks.

**Forms, Culvert, Road, Sewer, Tunnel, etc.**
Blaw-Knox Co.
Heltzel Steel Form & Ir. Co.
Lakewood Engr. Co.
Metal Forms Corp.

**Forms for Curb and Gutter**
Blaw-Knox Co.
Heltzel Steel Form & Ir. Co.
Metal Forms Corp.

**Forms for Walls, Building Construction, etc.**
Blaw-Knox Co.
Concrete Steel Co.
Heltzel Steel Form & Ir. Co.
Metal Forms Corp.

**Foundations**
MacArthur Concrete Pile & Foundation Co.
Merritt-Chapman & Scott Corp.
Post & McCord, Inc.
Raymond Concrete Pile Co.
Simplex Concrete Pile Association, Inc.
Spencer, White & Prentis.
Underpinning & Found. Co.

**Frogs and Switches, Railway**
Bethlehem Steel Co.
Foster Co., L. B.
Ramapo Ajax Corp.
Sweets Steel Co.

**Furnaces, Annealing & Tempering**
American Bridge Co.
Westinghouse Electric & Mfg. Co.

**Gas Holders**
Chicago Bridge & Iron Wks.

**Gas Producers**
Blaw-Knox Co.

**Gates, Sluice**
Chapman Valve Mfg. Co.
Coffin Valve Co.
Coldwell-Wilcox Co.
Hardesty Mfg. Co., R.

**Gauges, Loss of Head**
Simplex Valve & Meter Co.

**Gauges, Rates of Flow**
Simplex Valve & Meter Co.

**Gears**
Earle Gear & Mach. Co.
Link-Belt Co.
Vulcan Iron Works of Pa.

**Gears, Worm Reduction**
De Laval Steam Turbine Co.

**Generators, Electric**
Allis-Chalmers Mfg. Co.
General Electric Co.
Westinghouse Electric & Mfg. Co.

**Glass, Fireproof**
(See Wire Glass)

**Governors, Waterwheel**
Woodward Governor Co.

**Graders, Road**
Adams Co., J. D.
Austin Western Rd. Mchy. Co.
Erie Steam Shovel Co.
Hadfield-Penfield Steel Co.

**Granite**
Granite Paving Block Mfg. Assn.

**Graphite**
Dixon Crucible Co., Jos.

**Gratings, Safety**
Irving Iron Works
Kerlow Steel Flooring Co.

**Gravel Washing Plants**
Link-Belt Co.
Sauerman Bros.

**Grouting**
Weber Engineering Co.

**Gypsum**
U. S. Gypsum Co.

**Hammer, Pneumatic**
Chicago Pneumatic Tool Co.

**Hammers, Steam Pile**
(See Pile Hammers, Steam)

**Heaters, Tar & Asphalt**
Connery & Company
Honhorst Co., The Jos.
Littleford Bros.

**Hoists, Concrete Tower**
Clyde Iron Works Sales Co.
Insley Manufacturing Co.
Lakewood Engr. Co.
Lidgerwood Mfg. Co.
Mead Morrison Mfg. Co.
National Hoisting Eng. Co.

**Hoists, Contractors' Electric**
Allis-Chalmers Mfg. Co.
Bay City Dredge Works
Clyde Iron Works Sales Co.
Dobbie Foundry & Mach. Co.
Flory Mfg. Co., S.
Lidgerwood Mfg. Co.
Mead Morrison Mfg. Co.
Mundy Hoisting Eng. Co.
National Hoisting Eng. Co.
Northern Engineering Wks.
Porter Co., H. K.
Ransome Con. Mchy. Co.
United Iron Wks.
Vulcan Iron Works of Pa.

**Hoists, Contractors' Gasoline**
Clyde Iron Works Sales Co.
Harnischfeger Corp.
Lidgerwood Mfg. Co.
Mead Morrison Mfg. Co.
Mundy Hoisting Eng. Co.
National Hoisting Eng. Co.
Pawling & Harnischfeger
Schramm, Inc.
Vulcan Iron Works of Pa.

**Hoists, Contractors' Steam**
Allis-Chalmers Mfg. Co.
Clyde Iron Works Sales Co.
Ingersoll-Rand Co.
Lidgerwood Mfg. Co.
Mundy Hoisting Eng. Co.
National Hoisting Eng. Co.
Vulcan Iron Works of Pa.

**Hoists, Motor Truck**
Mead Morrison Mfg. Co.

**Hoists, Pneumatic**
Chicago Pneumatic Tool Co.
Ingersoll-Rand Co.
Sullivan Machinery Co.

**Hoists, Skip**
Link-Belt Co.
Mead Morrison Mfg. Co.
Nelson Iron Works, N. P.

**Hoppers, Concrete**
Insley Manufacturing Co.
Ransome Concrete Mchy. Co.

**Hoppers, Steel**
Blaw Knox Co.
Erie Steel Constr. Co.
Heltzel Steel Form & Ir. Co.
Honhorst Co., The Jos.
Littleford Bros.

**Hose, Steam, Air & Water**
Chicago Pneumatic Tool Co.

**Hydrants**
Chapman Valve Mfg. Co.
Ludlow Valve Mfg. Co.
Michigan Valve & Fdy. Co.
Smith Mfg. Co., A. P.
Wood & Co., R. D.

**Hydraulic Giants**
Amer. Spiral Pipe Wks. Co.

**Inserts, Concrete**
Concrete Steel Co.
Truscon Steel Co.

**Inspecting Laboratories**
(See Directory of Engineers)

**Instruments, Drawing**
Keuffel & Esser Co.

**Instruments, Surveying**
Ainsworth & Sons, Wm.
Brandis & Sons
Berger & Sons, C. L.
Buff & Buff Mfg. Co.
Gurley, W. & L. E.
Keuffel & Esser Co.
Lietz Co., A

**Iron Work, Structural and Ornamental**
Irving Iron Works Co.
Kerlow Steel Flooring Co.
Ryerson & Son, Jos. T.
Snead Architect. Iron Wks.

**Jacks, Lifting**
McKiernan-Terry Drill Co.
Norton, Inc., A. O.

**Joints, Expansion Paving**
Barrett Co., The
Carey Co., The Philip

**Joints, Filler Paving**
Barrett Co., The
Standard Oil Co. of N. Y.

**Joints, Flexible Pipe**
Central Foundry Co.
U. S. Cast Ir. Pipe & Fdy. Co.

**Kilns, Rotary and Vertical**
Vulcan Iron Works of Pa.

**Ladder Steps, Steel**
Irving Iron Wks. Co.

**Lamps, Arc & Incandescent**
General Electric Co.
Westinghouse Electric & Mfg. Co.

**Lamps, Flood**
General Electric Co.
Westinghouse Electric & Mfg. Co.

**Lath, Expanded Metal**
Armco Culvert & Flume Mfrs. Assn.
National Steel Fabric Co.
Northwest'n Exp. Metal Co.
Truscon Steel Co.

**Leadite**
Leadite Co., Inc., The

**Lead Pencils**
Dixon Crucible Co., Jos.

**Lights, Contractors'**
Carbic Manufacturing Co.

**Loaders, Car & Wagon**
Austin Machinery Corp.
Austin Western Rd. Mchy. Co.
Barber-Greene Co.
Erie Steam Shovel Co.
Haiss Mfg. Co., Inc., Geo.
Link-Belt Co.
Nelson Iron Works, N. P.
Specialty Engr. Co.

**Lockers**
Wilson Corp., The J. G.

**Locomotives, Compressed Air**
Porter Co., H. K.

**Locomotives, Electric**
American Locomotive Co.
General Electric Co.
Vulcan Iron Works of Pa.
Westinghouse Electric & Mfg. Co.

**Locomotives, Fireless Steam**
Porter Co., H. K.

**Locomotives, Gasoline**
Davenport Loco. Works
Fate Root Heath Co.
Hadfield-Penfield Steel Co.
Midwest Loco. Works.
Milwaukee Loco. Mfg. Co.
Vulcan Iron Works of Pa.
Whitcomb Co., Geo. D.

**Locomotives, Steam**
American Locomotive Co.
Davenport Locomotive Wks.
Porter Co., H. K.
Vulcan Iron Works of Pa.

**Locomotives, Storage Battery**
General Electric Co.
Vulcan Iron Works of Pa.
Westinghouse Electric & Mfg. Co.
Whitcomb Co., Geo. D.

**Lubricants**
Dixon Crucible Co., Jos.

**Lumber**
Eppinger & Russell Co.
Southern Pine Sales Corp.

**Manhole Covers**
Central Foundry Co.
Shanley Reversible Manhole Cover

**Manometers**
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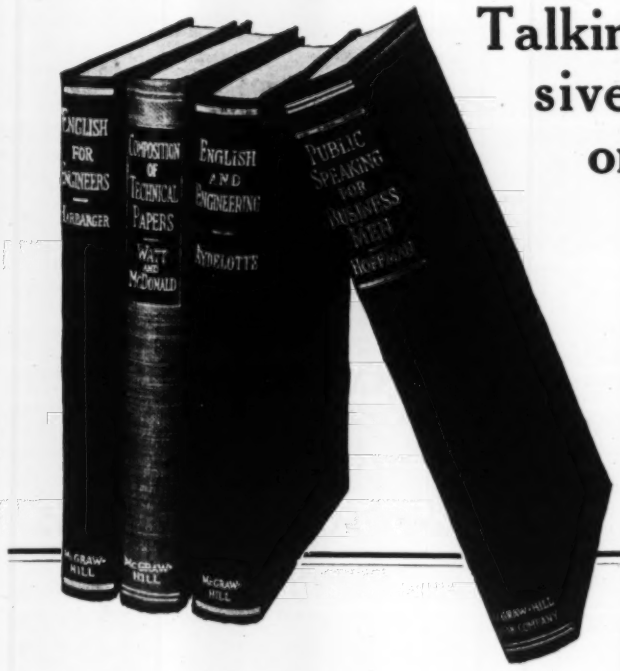


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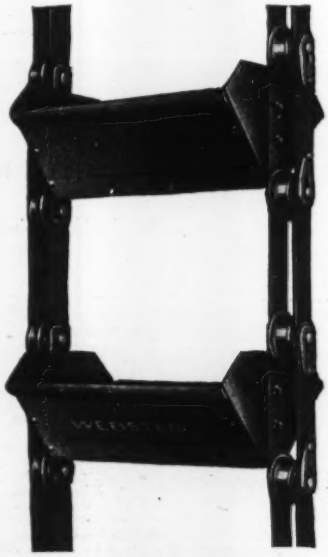

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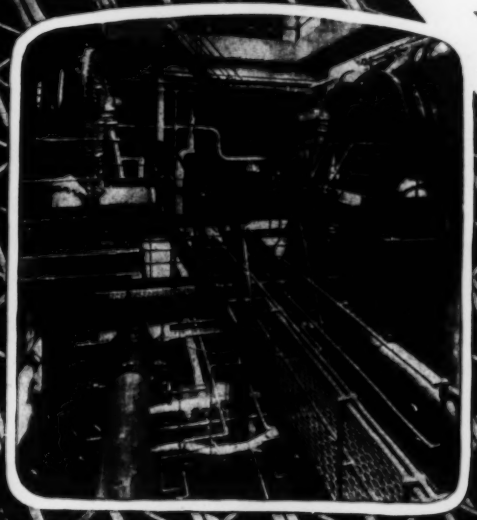
# IRVING SUBWAY

TRADE MARK

PATENTED REG.U.S.PAT.OFF

THE NON-SLIPPING OPEN STEEL FLOORING



It may be hard to put a dollars-and-cents value on underfoot safety and comfort—but there's no denying the fact that it is a big factor in plant operation and efficiency.

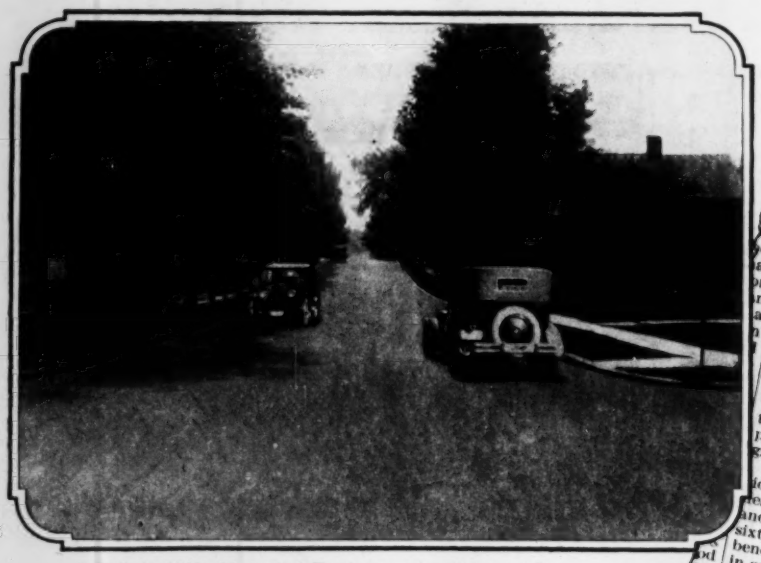
The smooth, comfortable, safe, non-slipping surface of a floor of ***"Subway"*** gets the most and the best from the men who have to stand or walk or work or wheel upon it.

And its sectional construction—light, rigid, convenient, all-steel panels—makes it easy to place anywhere—in wide expanses or in narrow walkways, around machines, etc.

*Ask us for Catalog 4A5.*

**IRVING IRON WORKS CO.**
**LONG ISLAND CITY, N.Y. U.S.A.**

B-77



*Built in 1909, this typical Tarvia street is still in perfect condition after 16 years of service.*

**Tax-Payers Reelect Road Commissioner**

**Voters Repeat Performance of Last Election—Keep Commissioner Edwards in Office**

By an overwhelming vote of confidence yesterday, J. E. Edwards was reelected to the office of Road Commissioner, a post which he has held continuously since 1909. The absence of all opposition testifies to the complete endorsement by the taxpayers of the Road Commissioner's program.

Old residents can recall when Commissioner Edwards, advocating a comprehensive policy of road construction, repair and maintenance, first took office in 1909, sixteen years ago. Prior to his encumbency the streets of the community were in sorry shape. Yet with considerably less than a liberal appropriation, Mr. Edwards was able to accomplish wonders.

Main Street was his first objective. So far gone was the surface of this main thoroughfare, it was decided to completely ...The work was done in the summer ...

# *The Road Official's record is "out in the open"—*

**Tarvia Service** *Chapter VII*

AS all public officials know, no official record is more completely out "in the open" than that of the road commissioner. If old roads are not well kept up, if new construction is not going forward, taxpayers soon begin to stir things up.

Quite natural that so many road commissioners lean toward a Tarvia program. For Tarvia enables them to point to sound economies effected—to savings in first cost and maintenance and savings on equipment.

In brief, the experience of hundreds of road officials has proved conclusively that, for the money spent, Tarvia gives more miles and the most years of satisfactory highway service.

**Tarvia**
*For Road Construction Repair and Maintenance*

The Barrett Company

| | | | |
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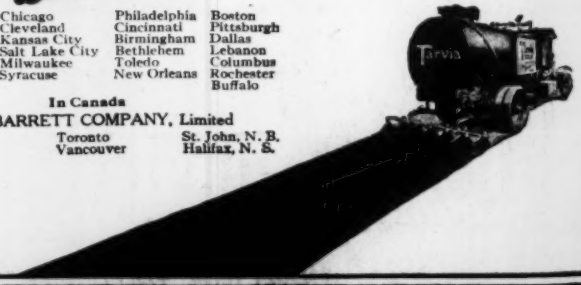
| New York | Chicago | Philadelphia | Boston |
| St. Louis | Cleveland | Cincinnati | Pittsburgh |
| Detroit | Kansas City | Birmingham | Dallas |
| Minneapolis | Salt Lake City | Bethlehem | Lebanon |
| Youngstown | Milwaukee | Toledo | Columbus |
| Baltimore | Syracuse | New Orleans | Rochester |
| Providence | | | Buffalo |

In Canada
THE BARRETT COMPANY, Limited

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